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January 1908



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BETTER FRUIT

A MONTHLY ILLUSTRATED MAGAZINE PUBLISHED IN THE INTEREST
OF UP-TO-DATE AND PROGRESSIVE FRUIT GROWING AND MARKETING

CONVENTION OF NORTHWEST FRUIT GROWERS

THE Northwest Fruit Growers' convention held at Vancouver, British Columbia, December 3 to 7, was one of the most notable ever held in the history of that organization. For the first time it met across the boundary, and the reception accorded delegates is said to have been most royal. Not only this, but members of the association from the States found that their fellow members from British Columbia are keeping stride with them in horticulture. On exhibition at the meeting were apples from all parts of the province, apples from the famous districts of Oregon and apples from Washington. Some came from Vancouver Island; some from Salt Spring Island, and even the Dominion Governmental farm at Agassiz had a splendid display which also included a large variety of nuts, just to show to the visitors that the Northland could grow those toothsome eatables.

When the convention was called to order by President E. L. Smith of Hood River, Oregon, there were about fifty entries for prizes in the various classes. It was in class one that the keenest competition existed. Those who exhibited were A. I. Mason, Hood River, Ortleys' Winter Bananas, Arkansas Blacks, Newtown Pippins and Spitzenbergs; the Chelan County Horticultural Society and the Commercial Club of Wenatchee had a display of Yellow Newtown Pippins, Winesaps, Jonathans, Rome Beauties and Spitzenbergs; W. E. Scott of Salt Spring Island entered Rome Beauties, Northern Spys, Kings, Bellflower and Canadian Reinettes; from Grand Forks, British Columbia, J. D. Hornburger and James Rooke brought Northern Spys, Wagners, Yellow Newtown Pippins, Rome Beauties and Jonathans; others with about the same varieties were Coldstream Ranch of Vernon, F. R. Stewart of Vancouver, Linden Wood Farm, J. A. Coatham, proprietor; Sardis, Stirling & Pitcairn of Kelowna, G. F. Scott, Ganges Harbor, Salt Spring Island; Thomas G. Earl of Lytton, Kildonan Lodge of Ruskin, L. P. Pridham of Kelowna, and the Similkameen Farmers' Exchange of Keremeos.

In class two there were but a few entries, but the varieties were much greater. This class also included pears, peaches, quinces and dozens of sorts of apples. Those who entered were Commercial Club of Wenatchee, Hornburger & Rooke of Grand Forks, J. Smith of Langley, and Kelowna Fruit Growers' Association.

To gain the prize for the best box of commercial apples there were more than forty entries, and at least half that number of varieties. There was one particular display that attracted a good

deal of attention. They were two boxes of the variety known as the Black Ben Davis and one box of Rome Beauties. In each box there were but thirty-six apples. Every apple was in perfect condition and, although of abnormal growth, well colored. A. J. Linville, Harry Shotwell and B. M. Chapman of Wenatchee were in charge of this exhibit, as well as those for the Commercial Club of their home city.

The official welcome to the delegates to the Northwest Fruit Growers' convention at the City Hall was cordial. The Mayor spoke on behalf of the city, the Minister of Agriculture represented the government and the large attendance of the general public showed how keenly appreciative the rank and file

come and hospitality of its citizens. And that welcome is all the more cordial and that hospitality all the more kindly because of the international character of your gathering, and the reflection it brings to us. By it we are reminded that between two, at least, of the great nations of the earth all differences have faded away into friendly emulation in the scientific pursuit for the common good of peaceful industries. Between those two majestic sisters of the Saxon blood the hatchet of war is buried. It is now left to them to vie nobly with each other, and by an unselfish emulation and a generous rivalry, like yours, in the pursuits of peace, to show to the world that the path of ambition has for them ceased to be so narrow that they cannot walk it abreast. No longer does either nation need to give to the other or to the world proof of its valor. Those proofs are already made on both sides and indelibly written on the page of history. Alike in this as in all things honorable, differing only as 'one star differeth from another star in glory,' these two great nations have of late years been setting the example, which you are so worthily following, of uniting in an effort to let in the light of truth upon those things which are most pleasing and profitable to mankind.

"Your association in bringing the searchlight of science to bear upon the fruit fields of the Northwest is doing a work the value of which it is hard to overstate. The love of horticulture is instinctive in the race. Like charity, it never fails. True, the instinct may be suppressed. It is too often suppressed by the cares and more exciting pleasures of city life. But it is born in us all and there is no pursuit which brings more happiness and brightness into life than that of horticulture. And perhaps no place on earth is better adapted to that pursuit than this Pacific Slope of the North American continent. So far, at least, as we are concerned, our own statistics show beyond a doubt that British Columbia is the fruit growers' paradise in Canada. Our fruit trees are beyond all comparison more productive than those of the rest of Canada. They are not only freer, but almost entirely free from scale and scab.

"It is fitting, therefore, that in this, its Canadian home, horticulture should have the benefit of your deliberations. We welcome you to Vancouver, Vancouver the finest fruit of Canadian citizenship, free also from scale and scab, free from those excrescences which disfigure places of slower growth, cosmopolitan in character, progressive in spirit, generous in hospitality. To Vancouver we welcome you, and we only

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FREEWATER, OREGON, A COMING FRUIT DISTRICT

SPITZENBERG BEST COMMERCIAL APPLE OF TODAY

WHAT IRRIGATION IS DOING FOR THE NORTHWEST

were of the visit of so many expert fruit growers from so many points on the Pacific Coast.

In opening the meeting the secretary, Mr. Maxwell Smith, traced the growth and history of the association since its inception. He said all the conventions of the association had been held south of the boundary, so that its international character had been somewhat overlooked, and it was with pleasure that he had seen the invitation given by Mayor Bethune to meet at Vancouver accepted. The provincial government had contributed \$500 toward their expense; \$300 had been subscribed by the fruit dealers of Vancouver, and \$200 by the fruit growers of British Columbia. They owed thanks also to the provincial government for its loan of exhibits, and to the Dominion government for allowing the fruit in free of duty.

Mayor Welcomes Delegates

In welcoming the delegates, Mayor Bethune said:

"It is my privilege and my pleasing duty as Mayor of Vancouver to extend to you the free and open-handed wel-

hope that your visit may be as pleasant to you as, we are sure, it will be beneficial to us."

President Newell Replies

Hon. William K. Newell, president of the Oregon State Board of Horticulture, replied to Mayor Bethune. It was the first trip to Vancouver for a number of them. They looked around to find some difference in custom, but the people of Vancouver were as ready to receive their money as their own people were, and about the only difference they found was that the street cars went to the left instead of to the right. When they went to the opera house and heard the audience cheer Old Glory as well as the Union Jack they felt quite at home. The fruit growers of Oregon felt they owed the fruit growers of British Columbia a special debt, as they were the pioneers in rigid inspection of fruit and trees. Oregon had been lax, but had profited by British Columbia's good example.

Mr. Tatlow on Fruit

Hon. R. G. Tatlow regretted the absence of the premier, who had only been prevented from coming at the last moment by matters of extreme urgency. At the same time it gave him great pleasure to see so many gathered together for the furtherance of what Lord Grey called "the beautiful art of horticulture." British Columbia was once called a sea of mountains, and it would no doubt be a great surprise to many to know that it was fast becoming the greatest fruit growing province in the Dominion. It had been shown that apples could be grown as far north as the Skeena River, and for the present year it was estimated that there were 1,500,000 fruit trees in British Columbia.

It was with some pride that they remembered that they had won the gold medal of the Royal Horticultural Society in London. The result was to attract a good class of settlers, and at the same time to further an industry which, allied with agriculture, must become the great basic supply of the country's wealth, for when the last shovelful of ore had been taken from the mines, when the last Douglas fir had been felled, and the last salmon taken from the Fraser River, this industry would be a continuous source of wealth in years to come, for the industry could only be hampered in British Columbia by the rate at which land could be brought under cultivation as besides the illimitable market of Central Canada, they had won a good market in the old country also.

President Smith Stirs Hearts

Mr. Smith, president of the association, replied. He said that with the Minister of Agriculture he recognized that agriculture, allied with horticulture, was the basic industry of any great country. They were told on coming here that they were coming to a foreign country. He had come here twenty years ago when Vancouver was a city of stumps, and the progress had been marvelous. "Strong indeed are the ties of a common language, but stronger still are the ties of a common ancestry." We can never forget that in most of our veins British blood flows as it does in yours, and we share with you the historic greatness of your glorious past. I cannot now forbear to specialize on that noble woman who

for more than half a century, from the throne of Britain, set such an example of modesty and nobility of character as appeals to all our hearts, and I believe you also share with us in the glory of Washington, the manhood of Lincoln, and our pride in a president who vindicates the law by punishing its violators. Let us hold that man an enemy who would abate by one jot or tittle the unity that now exists between these two great nations, and may such gatherings as these lead to a better understanding and fellowship between them, so that it may



MAXWELL SMITH OF VANCOUVER, B. C., Who made the convention of Northwest Fruit Growers in that city an unprecedented success

he said of them as it was said in olden time: "By their fruits ye shall know them."

Business Meeting

That inexperienced people have planted in British Columbia too many fruit trees of no commercial value was one of the points made at the opening business session. The complaint was made by Professor Anderson of Victoria, who read the first paper, which was on

"Environment and Selection." He pointed out that plants would often accustom themselves to altered conditions when transferred from one region to another. It was not always the case that the native habitat of plants was that in which it would reach its highest development. It was possible and was occasionally found that transference to a new climate of animals or plants resulted in greater powers of reproduction. The warmth or coldness of a soil had much to do with their development, and Professor Lake had said that here they were gradually developing west coast types of fruit. As to selection, it was the principle factor in the breeding of plants as well as of animals. The ideal type should be chosen to the exclusion of inferior individuals. Astonishing results had been obtained by the propagation and the selection of fruits of proved merit. It followed that if the highest goal was aimed at in the production of fruit the propagation of the best must be recognized. It behooved those in the business, or those entering into fruit growing, to profit by the experience of others. It was unfortunately the case that in this province there were many hundreds, nay, thousands, of trees planted by inexperienced persons which were of little or no commercial value, and would result in disappointment, if not loss. An expert from Oregon had stated that seventy-five per cent of the fruit trees planted here would need to give way to other and better varieties.

Paper on Apples

The apple was described by A. I. Mason of Hood River, Oregon, in an address which showed poetic appreciation. They had been led to believe, he said, that the fall of man was on account of an apple under the management of a woman, and if that was so it reflected great credit on her judgment. It established the fact that the apple as a fruit had no superior. Like many other good things, the first cultivated apples on the Pacific Coast were grown from seeds brought from England. The apple was indeed the king of all fruits. No other could take its place as a food, and it adorned a table in a greater variety of forms than any other fruit. It was longest in the duration of its market season and the extent of its market. They had the entire year as a market for some varieties, and they had almost every spot on earth knocking at their door for their fancy apples. He would say to the bankers and merchants generally that there was no industry that would bring them more shekels than apple growing. It had been said that environment and association had much to do with building up of characters, and in his opinion there was a moral and refining influence in the cultivation of a beautiful orchard. He believed, too, that if the orchard could be substituted for the slaughter-house and the butcher shop, it would give them a healthier and a happier people.

Small Fruits

Small fruit came in for the attention of Mr. J. W. White of Hammond, British Columbia. After giving hints for their cultivation, he said there was no trouble in growing small fruit in the Fraser Valley, but there was trouble in careless handling by the transportation

companies. He thought they could grow as good crops in the Fraser Valley as anywhere, but unless they could get them to market to advantage they would not benefit. At Hammond now they had an association which looked to the shipping of their fruit to the market and they looked forward to the time when the different associations would work together in the question of marketing.

Graft Hybridization

Graft hybridization was interestingly dealt with by Professor Hamilton of South Salt Spring, British Columbia. It was a subject which should come in for

ties of pears. In discarding variety they were guided by the principle of its commercial value. They were desirous of giving a trial to any fruit that would be of economic value to the country.

Nut Culture

"Nut Culture" was the topic prepared by Colonel Dosch of Hillside, Oregon, and read on his behalf by Professor Newell. It was over twenty years, he stated, since he first experimented with nut culture, more especially English or more properly French nut culture, and by persistent effort had been gratified by seeing this important industry at last

was a healthy tree, having few pests to molest it and proved profitable from generation to generation with ordinary good care. As a business proposition he knew of no better in horticultural pursuits, and a well cared for grove was the best heritage a parent could leave his family. His experience with chestnuts were not so satisfactory, but he had found the Grosse Tendre, a variety of almond, perfectly adapted to this climate. Filberts are specially adapted to the soil.

Peach Growing

The over-production of peaches is as remote today as it was twenty-five years



YIELD OF APPLES RAISED ON TEN ACRES BY F. WALDEN, NEAR ZILLA, WASHINGTON, NOT FAR FROM COLUMBIA RIVER

more important consideration on the part of orchardists. Formerly there was much discussion as to whether grafting was a pernicious practice, resulting in deterioration of quality and having a devitalizing effect. Those instances in his opinion were the result of the union of two unsuitable varieties, the incompatibility of the varieties. Pears he found afforded more clearly defined instances of hybrids than other fruits. If dominating characteristics would assert themselves in animals, it was logical to suppose that in the vegetable kingdom they would also prevail in grafting. It was an experimental field which promised practical and profitable commercial results. The work of the experimental farm was outlined by Mr. Sharpe of Agassiz. There they had 2000 varieties of apples and 2600 varie-

receiving the attention it deserved here. A few who had planted on a commercial basis were now reaping the benefit. Many of the walnut trees planted at his earnest solicitation in Oregon, Washington, British Columbia, Idaho and Utah were now in full bearing. Nut trees of all kinds did well on most soils, even rocky ground, except heavy stiff clay soils, but did best in fairly rich soil as they were gross feeders, but there must be no "hardpan." Walnut trees should be "second generation" either grafted or grown from first generation nuts, and the varieties he had found best adapted for the Pacific Northwest were Franquette and Mavette, with a few Chabertes for confectioner's use. Walnut trees usually grew into bearing in five or six years and in twelve years were in full bearing. It

ago, said Professor S. W. Thornber of Pullman, Washington, in his paper on peach growing. Improved methods of transportation, the introduction of new firm fruits, greater skill in the growing of the crop, and the opening up of new markets had all played their part in eliminating the cry of over-production. The prospective grower would do well to study his chosen location with reference to the soil, the possible markets, the elevation and the transportation methods. There were growers who told them there was money to be made in peaches if they could successfully harvest two crops out of every five. One of the hardest tasks for the amateur was to thin sufficiently, but he soon learned that peaches from four to six inches apart were close enough for the best results; too

heavy a crop always resulting deleteriously to the quality of the fruit as well as to the tree.

Insect Life

The science of insect life as applied to fruit growing was the dissertation chosen by J. W. Cockle of Kaslo, British Columbia, whose paper claimed it was an axiom that every orchardist should be an entomologist. If he had neglected the first and cardinal essential for a successful orchardist, that is the study of insects, much of his labor would be lost. It was not necessary that he should know every insect that existed in his orchard, but it was most necessary that he should know which were his friends and which his enemies. Having this knowledge the natural sequence would be for him to try and turn it to account by ordering his spraying in such manner as to protect as far as possible the lives of the predaceous insects. It had come to his knowledge through observation during the past few years that some insects had forsaken their original food plant which comprised such trees and shrubs as cottonwood, willows and coenhus to feed upon the leaves of the apple, and the moral was for the orchardist to ascertain the most vulnerable time for attacking them. He paraphrased the famous advice to young men to read "Go west, young man, and grow fruit."

Mr. Y. W. Stirling of Kelowna was unable to be present, but he sent his instructive paper on apple tree pruning and more particularly the forming and pruning of young trees.

Transportation

The vexed subject of transportation was taken up by Mr. E. H. Shepard of Hood River, Oregon, who claimed that their fruit ought to be handled as delicately as eggs. Whatever their grievances against the transportation companies they must admit that the companies had done their share towards building up their magnificent industry. They needed to pay consideration to the condition of their goods before transportation. There was nothing so conducive to fruit being delivered in good condition as to have the fruit put in the car at the proper heat. He looked for great benefits from the precooling process. Their grievances could be divided into four divisions; the lack of cars, lack of the right kind of cars, lack of proper service in the time of delivery at the other end, and the rates. He believed they could approach these questions through the state commissions and the interstate commission. A motion was passed for a committee to be appointed to formulate well defined demands for handling and transportation of fruit.

The civic banquet given in honor of the visiting delegates Friday evening,

though gotten up on short notice, was an unqualified success and a fitting finale to the convention, and was characterized by the utmost good feeling throughout.

Mayor Bethune occupied the chair and the following toasts were honored: "The King of Great Britain and the President of the United States," proposed by the chairman and responded to by the whole company singing one verse of "God Save the King" and one verse of "America." "The United States of America," proposed by C. C. Fisher of New Westminster, British Columbia, and responded to by Colonel Dudley.

C. J. Sinsel, Boise, Idaho, vice-president for Idaho; Dr. E. D. Ball, Logan, Utah, vice-president for Utah; H. M. Williamson, Portland, Oregon, secretary; G. R. Castner, Hood River, Oregon, treasurer.

It was decided to hold the convention of 1908 during the first week in December in Portland, Oregon.

Will Meet in Portland

With practically all the officers of the association from Oregon this year and the next meeting place in Portland, it is hoped that the Rose City will respond generously to entertain our Canadian cousins, who promise to send



FLUME FROM COLUMBIA CANAL CONVEYING WATER OVER WALLA WALLA RIVER AND UNDER OREGON RAILROAD AND NAVIGATION COMPANY'S TRACKS

United States Consul, Vancouver. "The Dominion of Canada," proposed by Hon. W. K. Newell of Gaston, Oregon, and responded to by Mr. F. C. Wade, K. C., of Vancouver. "The Northwest Fruit Growers' Association," proposed by Mr. John Hendry of Vancouver, and responded to by Hon. E. L. Smith of Hood River, Oregon. "The City of Vancouver," proposed by Professor L. F. Henderson of Moscow, Idaho, and replied to by Mr. Cowan, K. C., city solicitor, of Vancouver. "The Press of the Northwest," proposed by Maxwell Smith of Vancouver, British Columbia, and replied to by Mr. E. H. Shepard, editor of "Better Fruit." Hood River, Oregon. "The Ladies," proposed by J. J. Miller of Vancouver, and replied to by Mr. C. J. Sinsel of Boise, Idaho. By singing "Auld Lang Syne" the banquet was brought to a close, and three rousing cheers for Maxwell Smith and the citizens generally of Vancouver, proposed by Mr. A. I. Mason of Hood River, Oregon.

Officers for 1908

The officers elected for 1908 were as follows: Hon. E. L. Smith, Hood River, Oregon, president; Maxwell Smith, Vancouver, vice-president for British Columbia; Mr. Otis, vice-president for Washington; Mr. Ceprell, vice-president for Oregon;

the largest delegation from British Columbia that has ever attended any meeting in the states. The meeting will be held some time next December and growers all over the states have expressed themselves as anxious to make it a big success.

At the meeting this year it was decided to abolish the competitive prizes for exhibits of fruit. It has been found that the awarding of prizes leaves more or less bad feeling and as the association is founded for educational purposes and for bettering conditions for the fruit grower, the displays hereafter will be given cards of merit according to their

Continued on page 27



ORCHARD SCENE AT ARCADIA, WASHINGTON

ONLY ONE SPRAYING NEEDED FOR CODLIN MOTH

BY A. L. MELANDER, STATE EXPERIMENT STATION, PULLMAN, WASHINGTON

DURING the spraying demonstrations for the codlin moth conducted by this station the past summer many points of the greatest importance have been brought out. At Walla Walla an abandoned orchard was given four sprayings and the crop was above ninety-nine per cent clean at picking time. Unsprayed trees in this orchard ran only three per cent clean.

third as strong as formerly. In contrast to the 3000 boxes of wormy fruit of the year before, this year but five boxes of wormy apples were found, a saving from the codlin moth of 99.9 per cent of the crop. The adjoining orchard sprayed four times by hand power and with the three to fifty formula lost half its crop. The second orchard at Wenatchee went even better than this. Tree after tree

of the blossoms point upward. To throw the spray directly into these flowers it is necessary to spray down into them from above. To reach the other blossoms some spraying must be done sideways and upward. A bend at the end of the extension rod will be of the greatest assistance, enabling the spray to be thrown in any direction by simply twisting the rod. The important thing

to remember is that the inside of every flower must get a complete coating of spray. This cannot be done by scanty spraying, nor with a misty spray. In 1906 the above mentioned Wenatchee orchard was sprayed with Vermorel nozzles, which produced a misty spray. This mist sprayed into the trees did not settle into the very bottom of the blossoms, and there were abundant places where the young codlin worms could enter unpoisoned. In our spraying we use power sprayers operated by gasoline engines, and maintain about 200 pounds pressure. We spray until every branch drips with spray, and by the time we are satisfied that every flower is filled the ground beneath the tree is wet. It may seem wasteful to throw ten gallons of spray on a tree, but the results obtained certainly justify it.

By such complete spraying we have demonstrated that the first brood can be killed so completely that there would not be enough second brood developed to pay for the subsequent sprayings. In this Wenatchee orchard which had 400,000 wormy apples in 1906 but 176 worms were trapped under the bands this summer. From what we know of the value of banding this would mean that only 400 worms escaped poisoning by the first spraying. Even under the best conditions of reproduction these 400 worms could not have numbered more than 8000 for the second brood, and 8000 apples would have been worth \$80. In other words, the spraying for the second brood cost over \$100 and saved \$80 worth of fruit. It would have been cheaper not to have given the later sprayings.

It will be contended that this advice will not apply to general conditions, that there are neighboring wormy orchards which send in moths enough to necessitate late spraying. Regarding this our studies have shown that the flying powers of the codlin moth are generally overestimated. It seems quite certain that the codlin moth breeds within a most restricted area, and does not usually migrate if it finds a place for its eggs near by. Even if your orchard should be a migration path for moths, the first spraying given in this manner will be of the greatest avail, and you can give any subsequent sprayings you wish. It is said that one can set out to have any percentage of worms one wishes just according to how one cares to spray. But this saying can be carried further. You can have any percentage of good fruit you wish just according to how thoroughly you do the first spraying. Every blossom you miss may mean twenty wormy apples at picking time. Therefore drench the inside of every blossom. That is what we mean by thoroughness in spraying.



ORIGINAL IRRIGATION PLANT ON WALLA WALLA RIVER, WHICH HAS BEEN REPLACED BY THE COLUMBIA CANAL

This orchard supplied the severest test of codlin moth spraying that could be imagined, and the entire extinction of the pest by a season's treatment affords a happy outlook to discouraged fruit growers.

At Wenatchee two commercial orchards were taken in charge. One of these had previously been sprayed four times a year by a power outfit operating at 140 pounds pressure, three pounds of arsenate of lead to fifty gallons of water being the spray used. In 1906 although sprayed in this way 3000 boxes of fruit were culled as wormy. This orchard was sprayed by us four times this year, a power sprayer being again used, but the arsenate of lead was used only one-

was stripped and not a worm could be found. You will ask how it can be possible to accomplish this with a weak spray when a stronger spray did not bring about these results. The answer is simple. It is this:

There is a fundamental fact that must be understood before codlin moth spraying will be successful. Practically every worm of the first brood will seek to enter the apple at the blossom end, and by far the majority of the later worms will also seek to enter at this place. Therefore just how thoroughly the innermost parts of the interior of the calyx are coated with poison will determine how many worms will be killed and how many will

escape. The only time that the interior of the blossom can be reached by spraying is before the calyx cup closes over. This closing usually takes a week after the petals fall. Accordingly the first spraying must be given within a week's time, for it is unwise to spray trees in blossom. This spraying must be given then, or never. If one pump cannot cover the orchard in time, more outfits must be secured.

In order to coat every part of the inside of the blossoms a pressure pump is necessary. The spray must be thrown into the flower with force, and a coarse spray from Bordeaux nozzles is best. At the time of this spraying about three-fourths



APPLE TREES READY FOR TRANSPLANTING AT ARCADIA, WASHINGTON

DESCRIPTION OF THE NOVEL RUTLAND PLUMCOT

AS ITS name clearly indicates, this new candidate for horticultural honors is a cross between the plum and apricot—a feat deemed impossible of accomplishment a few years ago. That its perfection was a matter of patient labor, close study and keen observation goes without saying, but with a continuity and singleness of purpose Burbank has been successful in overcoming obstacles thereby creating a fruit which happily partakes of the qualities of both parent stocks. In this endeavor many have been produced and amalgamated, resulting finally in what has been happily called "The Rutland Plumcot." In every respect Mr. Burbank does not consider it a perfect fruit, but it does possess some strong points of special interest to fruit growers. For instance, though not a heavy bearer, it produces fine large fruits in liberal quantities every year where apricots fail, thus to a great extent increasing the area for that fruit.

Distribution, Soils and Climate—Obviously, by reason of its parentage, the Plumcot will not only flourish in all portions of California, but it is the conviction of those who know it best that it will do well in the sheltered portions of Arizona, Southwestern Texas, along the Gulf of Mexico, the extreme Southern States, and as far north as Washington and Maryland. All the stone fruits, excepting the apricot, will withstand considerable cold, and the Plumcot possessing some of the elements of the plum, its culture is feasible where the apricot would be considered hazardous. It finds congenial conditions in a well drained loamy sandy soil, and is keenly responsive to intensive culture.

Blooming and Fruiting—Though recognized as an early bloomer, it nevertheless possesses characteristics insuring



WONDERFUL GROWTH OF NURSERY STOCK
AT ARCADIA, WASHINGTON

regular crops. The flowers appear continuously over a considerable period of time, thus enabling it to escape late spring frosts, where the apricot, under identical conditions, bringing forth its blooms all at one time, suffers a total loss of its crop. This of itself is an important feature in its favor, especially in localities quite subject to spring frosts.

Character and Value of Its Fruit—Obviously the amalgamation of the apricot and the plum must produce a fruit unique in character, hence its economic value is a matter still largely to be determined by its development and the exploitation of its uses.

One of its striking features is its brilliant red flesh, pos-

sessed of a strong sub-acid flavor rendering it a favorite for cooking, jellies and jams. When fully ripe, it is an excellent desert fruit, possessing a delightful apricot-plum flavor, soothing to the palate and melting in the mouth. Fruit about the size of an ordinary apricot with a deep purple velvety skin.

Habit of Growth—The tree is in every sense an object of beauty, grows much like a weeping willow, with long pendulous branches, which bend and hang gracefully over. Foliage small in character, somewhat thin, resembling

that of the plum rather than that of the apricot. The demand for this fruit has been so urgent that Mr. Burbank has consented to send it out in the face of the fact that he does not think he has developed it to its highest possibilities. Its many fine qualities coupled with its possibilities merit at least trial culture by the advanced horticulturists of the country.

ONE OF the best object lessons as to what the judicious and proper spraying of an orchard will accomplish in the short space of one year was shown at the recent fruit fair at Grants Pass, Oregon. It consisted of a fine display of Yellow Newtowns from the orchard of Mr. Martin Angel, which took first prize, and on which was the following placard:

"These apples are exhibited to show what can be done in a year's time on a badly neglected and run-down orchard."

"The work was done according to the directions of Professors Lewis and Cordley of the Agricultural College at Corvallis."

"Sprayed once for anthracnose, twice for San Jose scale, four times for codlin moth."

"Last year not one sound apple was to be found in the orchard."

"Sampson's spray was used."

"MARTIN ANGEL."

As an incentive to the orchardist whose trees have been allowed to become diseased the above ought to prove as welcome as a beacon light to the stranded mariner.

DON'T forget our advertisers, but remember they are entitled to your trade, because without their help "Better Fruit" would not be what it is.



FOUR-YEAR-OLD TREE IN ARCADIA, WASHINGTON,
IRRIGATED SECTION



A BIT OF COUNTRY ROAD, HOOD RIVER VALLEY
Photo by Miss Cook

THE STORY OF "WHERE FLOWS HOOD RIVER"

BY MARION COOK

THE QUESTION has been asked how I came to select Hood River as an inspiration for my book, and in answer the fact comes forcibly to my thought that I did not select it. On the contrary I, not it, am the victim, for it has long held me captive, a willing slave to its thralldom. If you ask why I love Hood River, I will answer, Why does the squirrel love the forest? Why does a flower love the sun? We know and claim our own.

I first saw the beautiful hills about Hood River (and even then they impressed me as "upholstered in brown velvet"), just fifteen years ago, when, an enthusiastic school girl, I covered nearly every part of the valley on foot. It fascinated me from the first, and during two eventful weeks I tramped and climbed, walking five miles up the high lumber flume when it was dry; wading in the Columbia near the spot shown in the photo accompanying "Night Song," and romping under these very "Oaks" I have pictured. When I reluctantly left for school an affection for this valley and its charm had been born which was but to grow and mature with the years.

When next I saw it winter held sway, and for five months I gloried in the changing landscape, dreamed over Mount Hood towering pale in the moonlight over the glistening snow (we had an unusual amount that year), rode triumphantly behind "Old Nell" on fearfully and wonderfully made bob-sleds, or stood on her broad



MISS MARION COOK,
The Author of "Where Flows Hood River"

their fitting resting place in this little book. For over two years following I claimed Hood River at intervals—summer and winter, in town and country—and it was then the Serpentine Road (on which, by the way, "Gold" was written nine years ago), the wonderful gorge of Hood River, the shifting views of the Columbia and noisy Hood, became indelibly pictured on my heart. During this time I saw the glorious sunset described, from Cloud Cap Inn, and found nameless comfort and companionship in the tall pines, moaning or in fragrant stillness. Then, too, I held frequent "wa-wa's" with "Old George" and, by dint of practice, acquired enough of the Chinook jargon to converse spasmodically with other Indians. However, I consider this a questionable accomplishment.

Then for nine years the yellow buttercup hills, the rapids of Hood River, the whole beautiful valley was but a memory, and not till this past summer did the sight of it gladden my eyes and help to erase the consciousness of what those years had brought. That it exerted its old enchantment this book is evidence—I could no longer keep still. I am jealous for this valley and want all to see it and love it as I do. Many changes have taken place, but the spots I have herein dwelt upon can never change—certainly not for many, many years, and if I have echoed the unspoken thought of any of my readers, or acquainted the stranger with some of its open or hidden charms, I shall be satisfied.

back to gather the pine mistletoe. The fact that we, a family of four, consumed fourteen boxes of apples that winter argues well for the quality of Hood River's famed fruit.

From this farm both Mount Hood and Mount Adams seemed very near and became well nigh indispensable to my days, while a veritable panorama of beauty greeted the eye at every turn. It was at this farm that the first three stanzas of "Night Song" were written—destined to at last find



WHERE THE STRAWBERRIES GROW



ORCHARD AND RIVER

WHITE SALMON—A DEVELOPING FRUIT DISTRICT

ONE OF the most promising fruit growing districts on the Washington side of the Columbia River that is being developed is that tributary to White Salmon. Situated opposite Hood River, Oregon, its valley is practically a continuation of the plateau that has made the latter famous, but until recently it has not been developed owing to lack of transportation. This objection is now overcome by the construc-

Pacific region. The soil is very rich and exceedingly productive. Apples grow there, when the soil is once under cultivation, to the greatest possible perfection. All kinds of fruit, except citrus, find there the most inviting place for their production. Five acres or ten at most is sufficient for the support of a family. Strawberries grow so large that the readers of this article would not believe the statement if the full truth

produced in the greatest abundance throughout the entire season.

Back from White Salmon for about forty miles is a fine agricultural country with the best of facilities for farming, stock growing, dairying and the lumber industry. Altogether White Salmon has most desirable resources which are composed of a great variety of products. It will readily sustain a large population and is developing rapidly.



VIEW OF THE RAPIDLY DEVELOPING TOWN OF WHITE SALMON, WASHINGTON
A new fruit growing district along the recently constructed railroad down the north bank of the Columbia River

tion of the new Hill railroad down the north bank of the Columbia, and the territory is attracting many investors.

In addition to many other attractive features, there is a good material basis for the prosperity of White Salmon. Except a few farms which have been developed the entire country is virgin soil and unbroken forest, except where the hills lift their crests above the valleys.

Few people seem to appreciate the fact that very little of the soil of Western Oregon and Washington is cultivated. Its people have been so busy clearing forests, cutting lumber, catching and canning fish, besides building railroads and constructing houses that they have not had time to devote to agricultural pursuits. This has all arisen because of the lack of sufficient population to bring the country under cultivation. The vicinity of White Salmon with all its attractions has had a like history to other parts of the North

were told. Raspberries, blackberries, gooseberries and currants have there a place where their highest production is realized. The land, unimproved, is worth \$25 to \$100 per acre, but when cleared and put under cultivation it is worth from \$300 to \$800 per acre. The timber about pays for the labor of clearing it, so that with health and industry, intelligence and economy, men can make for themselves homes of comfort where they will be sure of peace and plenty, of congenial, helpful association, and of educational and religious advantages.

The community is bonded now for the construction of an irrigating ditch, the water for which will come from one of the streams which arise near the foot of Mount Adams. This ditch is to water about 2000 acres of land. This is very important and will make the land near it very valuable. Without irrigation the land produces excellent crops, as there is sufficient rain until July. With irrigation, vegetables and small fruit can be

White Salmon has a well organized Commercial Club, and gladly furnishes literature and pamphlets to anyone who is interested in this beautiful section.

BETTER FRUIT is receiving many suggestions which are greatly appreciated. Small fruit men, prune growers, grape growers, peach growers, are all asking "Better Fruit" to devote more space to these varieties. Just a word to our kind friends. Rome was not built in a day. We never did like to do a job poorly—half done is not done at all. It takes space for every line we take up because we aim to exploit it fully. We are swinging around the circle just as fast as we can. We will get to all of your specialties in time and then do it well.

BETTER FRUIT has now subscribers in England, Germany, Scotland, Cuba, New Zealand and Italy. It has the confidence of every grower, every subscriber and reader; it is going to conduct itself so as to continue to merit it.

THE CHERRY INDUSTRY OF THE NORTHWEST

BY C. E. HOSKINS

ABOUT 1847 the idea of bringing cultivated fruits across the plains was undertaken by Henderson Luelling and successfully accomplished. Most of the then known fruits were bedded in soil in boxes, hauled by ox teams and planted at a place now known as Milwaukie, about eight miles above Portland on the east side of the Willamette River, where in later years Hender-

because the trees did so remarkably well at the old nursery.

Most of the native seedlings of prominence were the creation of Seth Luelling, though the Lambert, a seedling of later years, is being largely planted. There is no doubt that the largest cherry in the world is produced in the country watered by the lower Columbia and Willamette Rivers. The average-sized

have been found only fit for home use. The writer has fruited all the promising seedlings of the United States, also most of those imported from other parts of the world, and finds of the latter, one kind only is of value in our Northwest, viz.: the Baltirari, imported from Hungary about 1890. It is a Bigarseau of the same type as the Napoleon and ten days to two weeks later.



PICKING BERRIES IN ONE OF WHITE SALMON'S FAMOUS EARLY BEARING STRAWBERRY FIELDS

son and Seth Luelling conducted the first nursery business west of the Rocky Mountains and north of California. In the traveling nursery came the cherry. Three classes, the Bigarseau, or French; the Marillo, or English; and the Mahilb, a native of the shores of the Black Sea. The label of the Napoleon was lost in the journey across the continent, hence the name "Royal Ann."

The lack of seeds and scarcity of stocks caused the Luellings to work on the native wild cherry, or *Prunus Demesa*. Many old trees are yet doing fairly well on this stock. As soon as seeds could be grown and Mazzard seeds procured, more suitable stocks were used. The planting of seeds of the cultivated Bigarseau caused Seth Luelling to begin selecting the best appearing seedlings and fruiting them by working on bearing wood. Thus was produced the Luelling, Black Republican, Lincoln, Willamette Seedling, Bing, etc. Up to the last few years it was thought the commercial cherry must be dark, large, solid and must be shipped green. The first plantings were made along the Willamette River and its tributaries,

cherry measures nearly one inch, and selected specimens one and three-eighths inches in diameter.

Climate and Soil Conditions

The climate of the territory spoken of is not exactly adapted to the wants of the Bigarseau cherry. The temperature should be a few degrees cooler. The winters are too long, and there is not enough contrast between winter and spring. In the early spring it is impatient for sap flow, but after settled warm weather comes, ideal conditions prevail. Cherry growers now recommend red hill soil and northwest slopes. The principal soil formation is basaltic, dry and rich. The great amount of sunshine gives the cherry, and in fact all fruits, a little more color than in the Middle West. To the cool nights we are indebted for the large size and superior canning qualities of our Northwest cherry. Those able to know predict that the canned cherry of the future will be produced within a few hundred miles around Portland, Oregon.

Varieties Recommended

In past years most plantings were largely experimental, and many varieties

The largest growers at Springbrook would recommend the Napoleon or Royal Ann and Baltirari for shippers as well as for canning; Governor Wood, Elton and Rockfort as canners only; the Lambert and Bing as shippers only. Conditions are almost perfect for the Duke and Marilla class, but they are too soft to ship and not good for dessert goods.

The Cherry as a Commercial Fruit

The climatic conditions are not the best for growing a shipping cherry, unless to nearby markets. The fruit is too large and tender. Yet some of the later varieties were shipped this year to Los Angeles, San Francisco and Denver, packed in regular ten-pound boxes by open express. All arrived in fine shape and sold for 20 cents a pound.

As near as can be learned the output of canned cherries for 1907 grown and canned in this territory was 2,200,000 pounds. Prices paid, four to five cents per pound delivered. The above figures are conservative. Reliable information is hard to get, yet enough is known to warrant the cherry as profitable as any other fruit when in the hands of the intelligent grower.

FREEWATER, OREGON, A COMING FRUIT DISTRICT

FREEWATER, Umatilla County, Oregon, is comparatively a new town, having been incorporated in 1902, although previous to this it had been a trading center. The center of the business portion of the town is within a stone's throw of the Milton Oregon Railroad and Navigation Company's depot, and is eminently adapted for a business center. The new electric line passes right through the town, and the depot is one block east of Depot street. Freewater, as its name implies, has abundance of pure, bright running water, and the little irrigation ditches carrying no silt are easily kept in repair.

To the west and north are three townships, giving thirty-six square miles of territory all under irrigating ditches, and destined to be the home of many thousands of people. Every month more land is being brought under cultivation, and intensified farming and fruit raising is the striking feature of the country.

The Sunnyside, Ferndale, Pleasant Valley, Vincent and Hudson Bay districts are all tributary to Freewater. The climate is very mild; there are no great extremes of heat and cold, and mildness of the winter season is evidenced by the fact that ever since the settlement of the country the Hudson Bay district has been the winter home of thousands of sheep and cattle brought down from the adjacent

grazing tracts in the Blue Mountains. Freewater has two banks both installed in modern, up-to-date buildings; one law office, three general stores, one notion store, two millinery stores, two blacksmith shops, two confectionery stores, one lumber yard, one drug store, one restaurant, one hotel, two butcher shops, one livery stable, two large flouring

ing nearly 200 mail boxes and 800 patrons, and R. F. D. No. 2 with 500 patrons. The people served by these routes find this their natural trading center. The city has electric light, and before long will have a gravity water system. The soil is admirably adapted for berry and fruit culture, and Freewater fruits are among the earliest



STREET SCENE IN ALBANY, OREGON, WHERE WILLAMETTE VALLEY APPLE FAIR WAS HELD

mills (one in city limits and one just over the line in Milton), one newspaper, the Freewater Times, postoffice, real estate office, two churches and good school facilities. Two rural free delivery routes center here, R. F. D. No. 1 serv-

ing in the markets. So high is the standard of these fruits that they command the highest prices, and have carried off medals given at the great expositions at Buffalo, Chicago, St. Louis and Portland. The garden truck trade is a great industry, and on account of early production and high quality brings big returns.

LEWISTON and Clarkston, where one of the greatest developments in fruit lands going on anywhere in the Northwest is taking place will soon have another mammoth orchard and vineyard in its vicinity. The new enterprise will consist of a 100-acre tract planted to winter varieties of apples and Tokay grapes. The plans of the promoters provide for the purchase and planting of the land next spring and the cultivation of some profitable crop between the trees until the orchard comes into bearing.

GOLD HILL, Oregon, is very much elated over the high prices received there this year for its apples. In a letter written to R. C. F. Astbury of that place by a large New York commission house he was recently informed that from \$2.25 to \$2.50 would be the price of a carload of Spitzenbergs shipped them.



SPILLWAY, NEAR LOWER END OF MAIN COLUMBIA CANAL

SPITZENBERG BEST COMMERCIAL APPLE OF TODAY

BY E. H. SHEPARD

AS MANAGER of the Hood River Apple Growers' Union for several years I gave all the details of handling, packing and marketing the apple the closest study. This I did with a view to perfecting every feature that would place the apple at its destination in the most attractive package and in the best possible condition, in order that

selected is 112, because it is well known to the trade that 96 to 128 are the most popular and sell the best. The box should be packed by the diagonal method. This style of pack is an advantage to the grower for the reason it takes fewer apples to fill the box and at the same time meets with the approval of the buyer because it carries better

other, and bad bruises result. In the diagonal pack the only direct pressure possible is in the perpendicular row, where the stem end fits into the calyx, both of which are the firm parts of the apple and consequently less apt to be bruised. Each apple in the layer, instead of resting directly on top of the apple underneath, rests in between, and consequently the possibility of bruising is reduced to a minimum in every direction.

The swell on the box is the result of several years of observation. I have examined hundreds of boxes in the warehouse after being hauled to town, after being unloaded from the car at the other end, and I have also corresponded with many European firms to ascertain the exact condition on arrival of the different bulges, before arriving at a definite conclusion. The result has been that I consider a swell, which is about one inch on top and bottom combined, the ideal one to insure good carriage with the least possible bruising and no shaking. The box should be lined with clean white paper, which assists in protecting the apples from bruising, and at the same time keeps out dust and dampness and adds to its attractiveness. A sheet of cardboard similar to blotting paper should be placed between each layer. This not only lessens the possibility of bruising, but prevents decay, should it commence, from contaminating apples in the next layer. Each apple is wrapped in duplex paper, which again keeps rot from spreading to the adjoining apples in the same layer. The duplex paper also assists in preventing bruising. Particular attention is called to the special wrap, for the reason it is so folded as to form a cushion underneath the apple. The greatest pressure the apple undergoes is that of one layer on another when the top of the box is nailed on. It is right then that sufficient pressure must be created and maintained during transportation to hold



U. K. LOOSE, FOUNDER OF ATTALIA AND COLUMBIA CANAL

it would command the fanciest of fancy prices. It is in this connection that I have come to my conclusions as to the best commercial box of apples, that is at least the best commercial box of apples of today.

The Legislature of the State of New York made a special appropriation of \$20,000 to publish two volumes entitled "The Apples of New York." These books are the highest authority extant today. Professor S. A. Beach, the editor, one of the most eminent horticulturalists, says in volume one: "The Esopus Spitzenberg originated at Esopus, Ulster County, New York, and was well and favorably known over a century ago, and is one of the chief commercial varieties in Oregon and Washington."

The Spitzenberg, when well grown, is handsomely colored and unexcelled in quality and flavor. It is a choice dessert apple. It is well adapted for cold storage, ships well, has a long established reputation, in the market always sells well, and is well suited for marketing in boxes and brings fancy prices.

After carefully reading the remarks on all other varieties and consulting the pomological list of the United States Government, in which the Spitzenberg is the only commercial apple rated full ten in quality, the conclusion must be there is just one best commercial apple and only one, and that one is the Spitzenberg; therefore I have chosen the Spitzenberg as an example of the best commercial box of apples. The size

and bruises less. The reason for this is that in no case does the side of the apple which is the more easily bruised press directly against the dead center of the side of the adjoining apple. Each apple is the center of a hexagonal and consequently the side presses in between the sides of the two adjoining apples, both of which in this pack slightly separate on pressure from the apple in contact, preventing bruising. In the square pack the sides jam up against each



THE WALLA WALLA RIVER, FROM WHICH THE COLUMBIA CANAL COMPANY TAKES ITS WATER. SHOWING THE COLUMBIA FLUME AND BRIDGE IN THE DISTANCE

the apples firm without bruising and prevent shaking. Loose or slack packing, perhaps, causes greater damage than any other defect. A sufficient pressure can be put on in nailing the lid on the box, so as to hold the apples firmly in their place. The apples are guarded from being bruised by the layer paper between the cushion of the duplex wrapper underneath each apple in the diagonal pack. A standard box in size should be used and be well made, of clean, well planed lumber.

The box should invariably be labeled. A label adds to the attractiveness of

Spitzenberg as a commercial apple, and go into a great many details as to why. When I state, however, that the handsomest, the finest quality, the most popular, the highest priced apple today is the Spitzenberg I think that it will be admitted that it is, at present at least, the best commercial apple known to the world.

A GAIN has the world's record price for Comice pears been broken by Rogue River Valley fruit, this time by the product of G. A. Hover's orchard, south

kept in storage and sold at auction last week, grossing \$4.60 a half box, or \$9.20 a full box, the highest price ever received for even this high-priced fruit. It was thought two months ago when Comice pears from G. A. Morse's orchard brought \$8.40 a box that the top notch had been reached, but even this has now been passed. The record for a carload still remains with the Lewis orchard, which is \$4622.80. One from the J. W. Perkins orchard grossed \$4558. The record-smashing began with the first shipment of the year, when F. L.



DEER LAKE, STEVENS COUNTY, WASHINGTON, STORAGE RESERVOIR OF ARCADIA IRRIGATION ASSOCIATION

the package, which means a better price. It also advertises the shipper, the district and the state or province. Perhaps equally important is the fact that the label itself must mean a guaranteed pack, which not only creates a better price, but at the same time establishes that better price.

The label is the guarantee that creates confidence and is an absolute necessity for fancy prices. The actual market value of a commercial box of apples is what counts when you sell your apples. We are engaged in growing apples for the same reason any man engages in any business, that of making money. Therefore every feature that adds to the commercial value of a box of apples must be taken into consideration.

I make the statement without fear of successful contradiction that the best box of commercial apples is the one that sells for the highest price.

I might take up much space in telling you of the superior qualities of the

of Medford, near Phoenix, says the Medford Mail. Returns have just been received from fancy fruit shipped October 5 from Medford by J. A. Perry, manager of the Rogue River Fruit Growers' Association. The pears were

Tou Velle beat the record with \$8.10 a box. Then C. H. Lewis got \$8.20. Then G. A. Morse \$8.40. If there were any more pears to market the price would climb still higher, in spite of financial stringencies and bankers' panics.

Oregon Life

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WHAT IRRIGATION IS DOING FOR THE NORTHWEST

IRRIGATION has undoubtedly accomplished wonders in the Western and Northwestern country. Thousands of acres that were considered worthless for a crop of any kind without water have been turned into veritable gardens by this life-giving fluid, and in many districts it has been the making of the fruit grower. While water is admitted by the majority to be essential in any fruit-growing section, it is much more so in some than in others.

are plowing up their hay fields and planting them to fruit. There are now a number of fine bearing orchards in this vicinity, and the people are daily becoming more interested in the real wealth of the country.

With such fine profits on a limited acreage of fruit it is not to be wondered at that the big holdings there are being cut up into the smaller tracts for fruit raising. Having seen the great development of irrigated fruit lands at

Indian orchards, says Mr. Wilson, are a credit to the Indians, and speak much for the industry and progressiveness of the natives. In none of the orchards did he find many diseased trees, and throughout the whole section only one tree that had to be cut down.

In regard to the quality of fruit that the Indians on Vancouver Island are growing, Mr. Wilson stated:

"You can say, and quote me as saying it, that equally as good, if not better,



DAM AND HEADWORKS OF THE COLUMBIA CANAL. COMPLETED AND IN OPERATION, IRRIGATING TWO HUNDRED TEN-ACRE TRACTS, AS WELL AS THE TOWNSITE OF ATTALIA, WASHINGTON

In the great Yakima Valley it is developing the largest acreage set to trees in the Northwest.

Two of the newer districts to be benefitted by big irrigation systems are Attalia and Arcadia, Washington. The former is in Walla Walla County and the latter in Stevens County, that state, and are expected to develop a big fruit industry in their respective sections. Heretofore much of this land has been planted to alfalfa and other forage crops, but is said to have become too valuable for this purpose. Indeed, farmers in this section are beginning to realize the truth of this, there having been 200 or 300 acres in small tracts within a radius of five miles of Prosser planted to orchards last spring. Much of this is new land not before cultivated, but there are numerous instances where farmers

Yakima and Wenatchee and their big profits, capital is doing much to develop other sections. In fact it is this that has induced the Columbia Canal Company and the Arcadia Irrigation Association to put in their magnificent irrigation systems. Situated on transcontinental lines of transportation with good soil and climate these new districts have everything in their favor, and it is but natural to expect that their success is only a matter of time.

DOMINION Tree Inspector Wilson of British Columbia, on a recent visit to Nanaimo, inspected the Indian orchards throughout the province. He is much pleased with their condition, especially those in the vicinity of Nanaimo. Many of the

fruit can be produced on Vancouver Island, and especially in this district, as can be grown in the Okanogan country. At Comox the other day, I saw the finest Spitzenberg apples that I ever saw in my life. People are rushing after upper country fruit lands and paying fabulous prices for them and then have to clear and irrigate the land. On the island you have much land all ready for fruit growing, it does not have to be irrigated, and the quality of the fruit is second to none. I look to see Vancouver Island some day as a great fruit producing country. Our present fruit growers can better their markets, if they will but grow uniform kinds of fruit, for instance, instead of many varieties of apples on the one farm. grow, say, but two or three varieties, so that in making shipments they can market a respectable quantity of one kind of fruit."

A TALK ON HORTICULTURAL REMINISCENCES

ON THE evening of December 14 Hon. E. L. Smith was the guest of honor at a dinner given by the State Board of Horticulture at Hotel Lenox. Hon. J. R. Cardwell of Portland, one of the speakers of the evening, made the following remarks:

President Newell, in his very kind note of invitation to meet with you this evening, informed me that I would be expected to say something, and suggested the subject, "Horticultural Reminiscences," adding that the occasion would be a banquet complimentary to our highly esteemed ex-president of the State Board of Horticulture, the Hon. E. L. Smith of Hood River.

In this I join you most heartily; the name and locality suggest to me some very pleasant and profitable reminiscences. Hood River, away back in the fifties, and up to a late date, was a dry town, a very dry town. Not a drop of whisky or a glass of beer in all that country. Inhabited by a very correct, exemplary people. Sometimes called "Sunday town." A place where weak and bad men went to get away from themselves—away from whisky, gambling and bad company. To my knowledge Hood River has saved many a man, restoring him to society and usefulness—I never heard that it saved our honored guest, yet he was there.

Hood River was a noted health resort. The pure mountain air, the fine water, grand inspiring scenery and correct habits restored health, and saved many a life for future usefulness. A long time ago Mr. Smith told me he was an invalid, almost in a dying condition, until he found Hood River. We note he does not now look like an invalid.

It was not known then that a fine apple could be grown on that mountain side. The Spitzenberg, the Yellow Newtown, or the Winter Banana of today were not dreamed of. A commercial apple at from \$6 to \$12 a box was not then conceivable. In the sixties and seventies a few citizens, in an experimental way, set out family orchards, or a few trees in the dooryards. These made phenomenal growth, and in time produced a large highly colored, showy apple of finest quality. It was then discovered that the fertile soil, rich in the mineral elements, iron, potash, etc., from the ash and decomposed mountain rock; the water shed from the glaciers and melting snows above forming a sub-irrigation at just the right depth for a vigorous growth of trees; the pure translucent air and warm bright sunshine of the long summer days—these were the right conditions, and this the right locality for the perfect apple. Mr. Smith was there and alive to the situation. I account it he had an apple inspiration.

I remember well the first apples he brought down in his grip to one of our exhibits. He showed apples and talked apples well, even in that early day. That was probably in the seventies. These apples were a surprise in size and quality. Verily a show apple. Some growers jealously called them a trick of some smart horticulturist.

E. L. Smith has always, or nearly always, been with us at our fairs and meetings, and made exhibits of Hood River apples, and talked Hood River apples. He was sometimes in our meetings called Hood River Apple Smith in

familiar pleasantry. These exhibits have grown larger each year, until now Hood River sends us several hundred boxes in the finest commercial pack, for show and quality, and in every respect, perhaps not to be excelled in the world. This our government pomologist says, and traveling pomologists from other countries have said, this the markets in New York and London says; this the cash returns show.

Hood River of today has been a growth of the last decade or two, and well illustrates what a fixed purpose, laudable ambition and manly muscular energy may do under favorable environments. Perhaps we may put it, the environments develop the character—the man. In turn the man utilizes and evolves the environments. However it may be Hood River seems to have the right men in the right place.

Hood River has taken a seedling strawberry, Clark's Seedling, and produced perhaps the best shipping berry, another notable commercial product, and now the source of a large revenue. These fruits were not produced without hard thinking and painstaking work.

Could we learn it would be interesting to know how much if anything the so-called creative power of the mind—mental suggestion—faith as a grain of mustard seed, or other cults in the psychic, had to do with these productions and this commercial success. These cults seem to have some importance with the modern so-called "New Thought" disciples.

Friend Smith, as grower, champion and orator for Hood River, as president of the Oregon State Horticultural Society, as president of the State Board of Horticulture, as president of the Northwestern Fruit Growers' Association, you have done good work and made an enviable reputation. We are proud of you; we are glad to have you with us this evening, and we note with pleasure that time is dealing gently with you. May you live long and prosper, you and your family.

Almost the whole world knows of Hood River as a place that produces the best fruits, and all of Hood River Valley should know, and could know, that there is one place in Hood River, under the firm name of R. B. Bragg & Co., that the people can depend on getting the most reliable dry goods, clothing, shoes and groceries at the most reasonable prices that are possible; try it.

THE New York "Apple King," who expresses his willingness to pay \$10,000 for a ten-acre apple orchard six miles from Ashland, gives strong testimony as to the opportunities for development of this industry in Oregon. The land upon which this orchard was planted was probably worth \$50 to \$100 an acre when used as a grain or hay field. To plant the trees and bring them to maturity may have cost \$100 an acre in excess of revenue that could be had from the land while the trees were growing. The difference represents the intelligence, care and skill in selecting and caring for the trees.

Mr. White gives no description of the orchard he considers the best west of the Rocky Mountains and it is impossible to point out just how the grower has managed to produce an orchard of such value. But, while it is impossible

Haphazard Methods Will Not Do in a Nursery

If there's any occupation or business where a man's sins of omission or commission will follow him and find him out, it's in growing and selling nursery stock. The conscientious nurseryman—and there are scores of them—is a public benefactor. He is helping create more wealth in the Northwest than did the great Seward when he purchased Alaska. We are proud to be in the business of supplying young orchards. We think we know how to grow trees, for the hard school of experience has been our teacher. We have an ideal location for the growing of fine, clean, healthy stock, and as perfect a system for handling our immense business as can be devised. Fall sales have now passed the two hundred per cent mark. We have more than doubled our previous best season's record, and the spring orders already on our books are also far in excess of any previous year at this time. Give your orders to our salesman and get your money's worth in healthy, hardy and well-rooted trees, true to name and free from disease. *Salesmen everywhere, more wanted*

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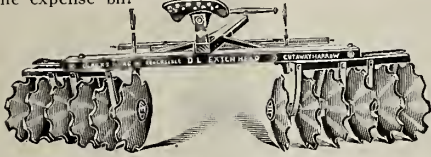
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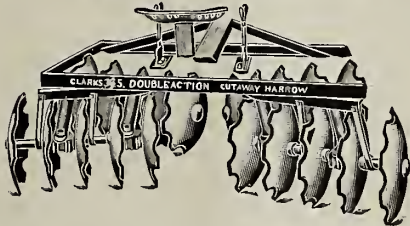
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If you are up-to-date and want to keep posted on the good and valuable things for orchardists and fruit growers, send for my circulars

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to tell how he did it, it is easy to tell some of the ways in which he didn't do it. He didn't take any old tree an irresponsible nurseryman wanted to get off his hands. He didn't set out a dozen different varieties of trees upon the theory that if one variety failed he would get a crop from the others. He didn't set the trees so close together that they couldn't develop a top or a root system without interlacing. He didn't give the San Jose scale full liberty the first few years upon the theory that it would be time to spray when the trees began to bear. He didn't turn the orchard over to a tree-butcher to trim and prune. He didn't let his trees become unbalanced so that limbs on one side would break off while the other side had nothing to break. He didn't rely upon Nature to do anything for him that he could do for himself. His apple orchard, worth \$1,000 an acre in the open market and worth \$1,400 an acre to him, represents an investment of perhaps \$200 an acre in money and labor. The rest of the value was the product of brains. — Portland Oregonian.

WHERE AND HOW TO MARKET YOUR FRUIT

WE desire to call the attention of associations and individual shippers to our list of fruit-buyers, as we have received several letters from both in regard to marketing their fruit. It is the policy of this paper not to accept any but reliable firms as advertisers, and as such we can recommend those who are now using or have been using our columns for that purpose. In our advertising columns will be found the names of the following firms whom it will be well for you to consult if you have fruit to dispose of:

EASTERN BUYERS

F. Newhall & Sons, Chicago; George Midden-dorf Co., Chicago; Crutchfield, Woolfolk & Gibson, Chicago; H. Woods Co., Chicago; W. N. White & Co., New York; Steinhart & Kelly, New York; E. P. Loomis & Co., New York; D. Crossley & Sons, New York; Rae & Hatfield, New York; Keally & Lovett, Pittsburg; Appel & Ujffy, New Orleans; Ives & Wynn, Philadelphia.

WESTERN BUYERS

Davenport Bros., Portland, Oregon; Pearson, Page & Co., Portland, Oregon; McEwen & Koskey, Portland, Oregon; Page & Son, Portland, Oregon; Templeton & Graham, Portland, Oregon; Davenport & Thompson, Portland, Oregon; Mark Levy, Portland, Oregon; Bell & Co., Portland, Oregon; Levy & Spiegl, Portland, Oregon; W. B. Glafke & Co., Portland, Oregon; Dryer, Bollam Co., Portland, Oregon; California Commission Co., Seattle, Washington; W. Biglow & Co., Seattle, Washington; Gordon & Co., Seattle, Washington; Ryan & Newton, Spokane, Washington; Davidson Fruit Co., Hood River, Oregon; A. O. Hershey, Hood River, Oregon; Richey & Gilbert, North Yakima, Washington; H. S. Emerson, Seattle, Washington.

SPEAKS WELL OF GRASSELLI SPRAY

LAWRENCE, Indiana, November 11, 1907.
The Grasselli Chemical Company, Cleveland, Ohio.
Gentlemen: In response to your request for my experience in the use of your Arsenate of Lead as an insecticide, I would say that I used it mixed with water (three pounds to fifty gallons of water), as the third application in a series of three in my scheme (the first and second Bordeaux Mixture and Paris Green), with very satisfactory results. It adhered through a series of heavy rains, and was still noticed at picking time (October 1). The foliage remained a healthy color and was free from insect ravages until the frost caught it, and the fruit was comparatively free from worms and other insect blemishes. I shall hereafter use it altogether instead of Paris Green.

Its cost is the only objection, but when I take into consideration its efficiency, I shall not be deterred by that. Yours very truly,

(Signed) W. B. FLICK,
Secretary Indiana Horticultural Society.

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ITEMS ABOUT FRUITGROWERS

YAKIMA'S total shipment of apples amounted to 375 cars this year, or about 225,000 boxes. Prices received were from \$2.25 to \$2.60 per box, and growers report a very prosperous season. While considerable anxiety was felt there for some time about getting the crop to market, nothing in the nature of a depression was felt, and that section is looking forward to an even better season next year.

Returns from Hood River's 1907 apple crop show that growers will receive in round number \$200,000 for their product, notwithstanding the money trouble, car shortage and reduced crop. This is approximately what the Hood River crop brought last year, when it was in the neighborhood of 20,000 boxes more, and is accounted for by the fact that the apples brought a much larger average price. The entire crop is now placed at 110,000 boxes, about 75,000 of which were handled by the Davidson Fruit Company. The company's purchase from the Hood River Apple Growers' Union amounted to 52,313 boxes, for which it paid that organization the goodly sum of \$94,724.29, or an average price for the lot of \$1.81 per box for everything. The average last year was \$1.40 a box, so that growers in the union received 41 cents more per box for their apples this year than last, which almost equals the entire cost of production. In addition to the union crop, the Davidson Company handled 25,000 boxes from other growers, and about 30,000 boxes were shipped by independent growers and the union, which sold in the neighborhood of 10,000 boxes of fancy fruit included in the latter figure, none of which went for less than \$2. f. o. b. at Hood River.

Ashland, Oregon, having been successful in raising apples, peaches and grapes, is now considering going into the cherry business. It is stated that the Royal Ann and Bing grow to perfection there, and that there are a least 10,000 cherry trees within the corporate limits of the city alone. These will probably come into full bearing in about three years.

Salem, Oregon, will have to be given the palm as the Cherry City, and some of the yields below given certainly look good to the prospective cherry grower. Enos Presnall harvested, from 525 Royal Ann trees, being five acres in all, 34,000 pounds, selling at 5 cents per pound, amounting to \$1700. Mr. Presnall paid for this orchard in the early spring \$1500, and it cost him about \$350 to harvest this crop. B. I. Ferguson, another fruit grower in Polk County, across the Willamette River from Salem, gathered and sold from 143 Royal Ann trees this year \$1400 worth of cherries (fourteen tons). Mr. Ferguson's trees are fifteen years old. He cleared above all expenses about \$1000 off of one and one-fourth acre. J. W. Delap sold from eleven Royal Ann trees \$130 worth of cherries. The Salem Mutual Canning Company bought from the local fruit growers during the season of 1907 over 400,000 pounds of Royal Ann cherries alone, and other varieties amounting to nearly as much. Another company bought 127,169 pounds of Royal Anns, and 50,881 of other varieties. D. A. White sold from one single tree 500 pounds at 5 cents per pound. C. J. Anderson picked from one tree 600 pounds, and from six he sold 3100 pounds at 5 cents per pound. Andrew Vercler cleared \$700 above all expenses from two acres of cherries.

Portland, Oregon, is admitted by all who were present, and the press of that city, to have recently been the scene of the greatest meeting ever held by the Oregon State Horticultural Society. While it is not possible for us to give many of the details owing to the fact that our paper was almost in press at the time the meeting was held, so much interest was manifested previous to its taking place that its great success was assured. Later we will give further details.

Walla Walla, Washington, is the place chosen for the meeting of the Washington State Horticultural Society this year and the dates are January 29, 30 and 31. Efforts are being made by the local fruit growers to make the Walla Walla



PART PANORAMIC VIEW OF FINE FRUIT RAISING DISTRICT IN THE ROGUE RIVER VALLEY
The view here shown was taken from Lewis Butte south of Milford, Oregon, and is part of the large orchard of Mr. Hunt Lewis

meeting the best ever held in the state. Three silver cups are being offered for the best ten boxes of apples, another cup for the best plate of apples and one for the best all round display of fruit.

Delegations are expected from Hood River, Freewater and Milton in Oregon, besides other places from that state, and delegations from Kennewick, Prosser, Chelan and every fruit section in

the State of Washington. Several prominent fruit growers of the state will have papers treating of different branches of horticulture and their experiences. Members of the faculty of the Wash-

ington State College at Pullman will have papers along similar lines, while they will also fully treat the different diseases and pests that Pacific Coast fruit is subject to.



BIRDSEYE VIEW OF HOOD RIVER CITY AND VALLEY



LOOKING SOUTH TOWARD MOUNT HOOD

HOOD RIVER CITY AND VALLEY

NO SPOT in the world has, perhaps, been more benignly smiled upon by Dame Fortune than the city and valley of Hood River. The combination of riches which she has bestowed upon this the natural gateway to Mount Hood are lavish indeed, as they are about all that can be desired in life—a climate that is mild without being enervating, scenery that is the marvel of all who behold it, and an opportunity of earning a competence in a few years. The history of Hood River is rich in incident of the rapid rise of the almost penniless from poverty to substantial means, while the story of men who a few years ago homesteaded land within a few miles of Hood River for which they have recently refused \$20,000 to \$30,000 is one that although known to be true no longer produces amazement. Although the development of Hood River, city and valley, has been phenomenal, it is in no sense a boom growth, but one that is substantial and was attained through the wonderful qualities of its soil for fruit cultivation and its valuable timber, the latter covering thousands of acres and worth several millions of dollars.

But it is as a fruit country and city that Hood River is best known and its unsurpassed apples and strawberries are known from Hongkong, across the Pacific, to London on the other side of the globe, where it has sent these products and which have conquered the markets of the world. Hood River stands pre-eminent as the Apple City of the Pacific Northwest, where methods have been inaugurated in the cultivation and shipping of fruit that have revolutionized the trade, and where commerce and fruit raising have advanced hand in hand to form a well balanced and prosperous community. The city is situated at the mouth of Hood River—from which it takes its name—on the south bank of the Columbia River, in Wasco County, Oregon, sixty-five miles east of Portland. It is in the heart of the Cascades and the valley extends in a southerly direction from the Columbia River to Mount Hood, a distance of about thirty miles. Its width is from three to eight miles and it is flanked on both sides with hills and mountains rising to an altitude of 1000 to 5000 feet. The elevation of the valley above sea level at the railroad station is 101 feet, with a rise in a short distance to the mouth of the lower valley of about 300 feet, and a gradual rise of sixty feet to the mile to the south.

Its temperature as recorded by the Government weather observer, which has a station at Hood River, shows that the average number of days in each year when the temperature is above 90 is nine, and the average number of days when it is below freezing point is seventy-four. While the temperature in mid-summer is sometimes high during the day, there is a never failing drop in the evening that makes it necessary to sleep under blankets. The cool nights are due to the presence of the snow-capped peaks of the Cascades, which, when the sun sinks to rest, overcome its effects with their storage of cold provided by Nature. Correspondingly mild winters follow the cool summers, the warming influence of the Japan current along the Pacific Coast and the Chinook wind make extreme or continued cold weather impossible. Although the temperature at night may drop to freezing point, that during the day is comparatively mild and seldom goes down to 32 degrees. Winter commences late, and spring early, and wild flowers picked in February are not uncommon.

The average rainfall is about thirty-eight inches and is heaviest in the winter and spring months and least in midsummer.

Substantial business blocks and handsome dwellings characterize the city of Hood River, with its well shaded streets and green lawns. It is lighted with electricity and its water is received from a spring, flowing 600 gallons a minute. Hood River, which flows through the city, is estimated by engineers to possess 100,000 horsepower at its lowest stage, and other streams within a radius of fifteen miles of Hood River are said to have 10,000 more, much still available.

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NEWS OF DIFFERENT NORTHWEST SECTIONS

OREGON'S fruit crop this year is officially estimated at \$4,275,235. This figure, far in excess of any previous year, is based on amounts actually received by growers, and represents an increase of fifty-three per cent over the fruit crop valuation of last year. To the high price now paid for Oregon fruit is partly due the increase in this year's total, but the larger acreage set out in orchards in response to Eastern demand is also a factor. The heavy plantings of the last few years are beginning to bear, and the further increase in the value of the crop will probably be very rapid in the future. The apple crop forms the largest item in the list, with a total value of \$2,423,000. Prunes paid Oregon growers this year \$1,590,625; pears, peaches and cherries in excess of \$230,000, and strawberries over \$400,000. Oregon pears this year have sold at wholesale in the East at 10 cents apiece; Hood River apples as high as \$5.00 per box. At these prices with cheap land, good transportation and a steady market, Oregon is attracting settlers and prospective fruit growers from all sections of the country.

Washington had its most successful season as a fruit raising state this year and the largest shipments ever made, amounting it is claimed to 10,000 cars sent out. Of this 6000 cars are said to have been apples and altogether, \$10,000,000, it is claimed, was brought into the state from fruit. While this is certainly a great showing, a well known authority in talking of the future of the state in the fruit business states: "The planting of orchards this season is heavier than ever before. Nurserymen already report the heaviest orders booked for trees on record, and the planting season is by no means over. A Toppenish nurseryman told me a month ago that his sales of trees was then eighty per cent of his total sales for last season. Oregon nurserymen report to me that they have orders in some cases for their entire stock of young trees. These conditions are something new in orchard planting in the Northwest."

Wenatchee Valley Fruit Growers' Association, after having had the most successful year in its history, recently held a meeting and considered increasing the capital stock of the association to \$100,000. Reports of officers showed that about 350 cars of apples and 250 cars of other fruits have been shipped by freight, and the express shipments will aggregate 300 cars. It is conservatively estimated that the effect of the association has advanced the price of apples 50 cents per box, of pears 40 cents per box, of peaches 10 cents per box, of apricots 35 cents per crate or \$35 per ton, on prunes and plums 5 cents per crate, and making the grand total of advanced price at least \$150,000.

Grants Pass, Oregon, will get its reward also for having fought the good fight for better fruit growing and shipping conditions. Its products are bringing higher prices than ever before and the meeting of the State Irrigation Association there did much to show visitors what had been accomplished in the short space of one year. The announcement of this improved condi-

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THE natural home of the Spitzenberg and Newtown apples. Rogue River Pears have led the United States for the past three years in the highest price in the New York market. No peaches of the South excel those of Rogue River, and trees are healthy. Grapes perfection in color and flavor and the best of shippers, and growers have more orders than they can fill. Rogue River cantaloupes, water-melons and cassabas, none better and big money makers. The Grants Pass Fruit Growers Union gets the highest price for fruit, and the Southern Pacific gives terminal rates on shipments East. Climate the perfect medium between arid California and webfoot Oregon. No storms or winds to injure fruit crop. Almonds and figs ripen perfectly and pawns grow in the yards. Land yet cheap but will double in two years. Now \$5 to \$100 an acre in small and large tracts, some on easy payments. American community and good schools, rural mails, telephones, etc. Full information by addressing **CHARLES MESERVE**, Grants Pass, Oregon, Seller of Real Estate in All Parts of Rogue River Valley. References by permission: Grants Pass Fruitgrowers' Union, First National Bank of Southern Oregon.

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We sell improved and unimproved fruit land in the best part of the Yakima Valley. Also "Hanford" land on the Columbia River. For descriptive literature and full information write

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SPITZENBERGS

Of grafts and buds taken from the famous Stewart orchard, President of Washington State Horticultural Society.

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**FOR HIGH PRICES AND
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of Hood River, Oregon

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During the past thirteen years we have built up a reputation for *quality* that has enabled us to handle crops grown by members of the Local Union as well as other growers, at price above what they could otherwise secure.

Our mission is to give the growers good prices, and the buyers fruit of such quality as will enable them to make satisfactory profits.

Our specialties are APPLES and STRAWBERRIES, but we handle all kinds of fruits grown in this section, including Pears, Plums, Cherries, Blackberries and Raspberries. If you are a buyer write us. If a grower call and see us, or telephone Main 71.

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VINELAND NURSERIES COMPANY

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Reliable Nursery Stock

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FRUIT AND ORNAMENTAL

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Yakima Valley Nursery, Inc.

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**Oldest Yakima Nursery
Largest stock. Second
to none in the State**

North Yakima, Washington

R. F. D. No. 4

tion of affairs there has attracted the attention of buyers who are looking that section up, and it is but a question of another year or so when they will be including it in their regular buying trips. It is expected that at least 25,000 boxes of fine fruit will be shipped from Grants Pass this year. Grapes, which grow to perfection in this section, will also comprise a big shipment, and a good many of the large growers there expect to net as high as \$100 per ton on the Flame Tokay and other European varieties. H. C. Carson, Horticultural Commissioner for Southern Oregon, has 45 acres in this profitable fruit near Grants Pass.

Willamette Valley growers are about to make war on the old orchards and unprogressive orchardists also. A vigorous campaign in many directions has already been outlined by the officers of the Apple Growers' Association, the details of which will be taken up at an approaching meeting of the association.

Tillamook County, Oregon, which is supposed to be the home of the cow and its products, wants it known that it is not to be left behind in the grand contest going on in Oregon to discover if there is any part of it where fine apples cannot be raised. A writer in the Oregonian says in this connection: "A remarkable thing about apples raised in Tillamook County is that they are free from worms. There is no sign of codlin moth here."

Freewater, Oregon, was one of the places this year that had a bumper crop of fine apples. Over 100 cars were grown there, all of which brought good prices, due to better care and spraying methods than had been put in use in previous years. This year's good results are said to have shown growers in the Walla Walla Valley that it pays to grow the best, and that next year will see better orchard conditions there than ever.

One of the largest individual sales reported is that of J. E. Trimble, of Garfield, Washington, who recently sold the entire yield from his 105-acre apple orchard for \$8,750. The orchard consists of 8,100 trees and the varieties in it are Jonathans, Rome Beauty, Gano, Ben Davis, Spitzenbergs and Newtowns. The number of boxes sold by Mr. Trimble is estimated at 27,000, and the trees are eight years old.

Medford, Oregon, disposed of a large part of its Newtown Pippins this fall to Balfour, Guthrie & Co., who are said to have paid \$2.60 per box for them. The apples were sold in a pool which was engineered by F. H. Lewis, and from 35 to 50 cars have been secured. Fruit from the Lewis, Burrell, Hopkins, Findley and other orchards was included.

DOES GOOD WORK

BRIDGEMAN, Michigan, November 20, 1907.
The Grasselli Chemical, Cleveland, Ohio—

Gentlemen: It is with pleasure I add my testimonial to that of others as to the effectiveness of Grasselli's Arsenate of Lead. It is sure death to all leaf-eating insects. Paris Green and London Purple wash off with rain, making it necessary to respray after each shower. The advantage of using Grasselli's Arsenate of Lead is its adhesive qualities. No matter how frequently it rains, it adheres to the foliage, and being white you can see just where it has been applied. Grasselli's Arsenate of Lead does not burn the foliage, nor scorch or injure the most delicate leaf. Grasselli's Arsenate of Lead is the safest, most valuable and most effective mineral insecticide discovered. The easy mixing and its adhesive qualities are special features which should commend Grasselli's Arsenate of Lead to the farmer and fruit grower wishing to combat against injurious insects.

I am respectfully,
(Signed) R. W. HASELTINE.

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**APPLE, CHERRY, PEAR
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Newtowns and Spitzenbergs

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OFFICIAL ORGAN OF THE NORTHWEST FRUIT
GROWERS ASSOCIATION

A MONTHLY ILLUSTRATED MAGAZINE PUBLISHED IN THE INTEREST OF UP-TO-DATE PROGRESSIVE FRUIT-GROWING & MARKETING. ALL COMMUNICATIONS SHOULD BE ADDRESSED AND REMITTANCES MADE PAYABLE TO THE BETTER FRUIT PUBLISHING COMPANY.

E. H. SHEPARD, EDITOR AND PUBLISHER
W. H. WALTON, ASSOCIATE EDITOR
CHRIS GREISEN SOLICITOR

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FOREIGN SUBSCRIPTIONS, including Postage, \$1.50
ADVERTISING RATES FURNISHED ON APPLICATION
Entered as second-class matter December 27, 1906,
at the post office at Hood River, Oregon, under
the act of Congress of March 3, 1879

WE BELIEVE every fruit district can help every other fruit district. We believe it a duty to help our fellow-man, a duty which all people who are not selfish will admit; and, moreover, it is a matter of business for two reasons which to anyone who has ever studied political economy are as clear as day.

First—If any district is instrumental in inducing other districts to do better work and put up a better grade of fruit the standard or market value of the package is increased, a fact which will result in a considerably higher price for each district.

Second—Putting up a better grade of fruit means that from five to twenty per cent instead of going into the green fruit market goes to the cannery, vinegar factory, dryer, into by-products or into the cull pile. The supply is reduced just that much, and the demand, it must be admitted, at least remains the same or is made better on account of the higher quality. Everyone knows that if you decrease the supply the demand remains the same or becomes greater as prices go higher.

WE WISH to publicly announce that we want all kinds of information about yields, net and gross incomes, prices and the doings of fruit growers in every district. We would like photographs if you have them to be used as illustrations. We want every new method that is good. We want every modern idea that is better than the old way. Our columns are open and free to everyone and every district, as "Better Fruit" is the official organ of the Northwest Fruit Growers' Association. We will have cuts made and pay for them, and we only impose this proviso: Your methods and ideas must be good and pertain to fruit growing in a commercial way. Your statements must be reliable—"Better Fruit" is not a "hot air" paper. It is up to you to deliver the goods and your fault if we don't get them.

WE ARE fruit growers for the same reason that others are engaged in any other business—that of making money. However, it must be admitted at the same time that a man does not always choose the business that would make for him the greatest wealth. For this there are many reasons, a few of which are as follows: Some kinds of

business are below his dignity and some are not honorable; some are not healthy, some are in sickly climes, some are extra hazardous and so on. Most men in any line of business they undertake or any vocation they follow without doubt endeavor to earn the most they can out of their respective callings. The better work they do the better under average conditions the result will be. We are not aiming to grow better fruit just for the pride of growing it, but for the extra profit. This is the aim of the orchardist. Is this selfish or mercenary? I answer "No." Our very reason for endeavoring to grow better fruit and get better results in itself is noble, because it enables the fruit grower to give his family greater comforts; it also enables him to give his children a better education, and intellectuality leads to a better and higher life.

IN THEIR efforts to get the meeting of the Northwest Fruit Growers' Association for their home town the delegates from Wenatchee who were in attendance at the recent meeting of that organization at Vancouver showed a most commendable and generous spirit. Although but twelve of them were present they subscribed \$300 on the floor of the convention for that purpose in as many minutes. In the matter of hustle and generosity many larger towns can take off their hats to Wenatchee.

AT THE International Northwest Fruit Growers' Association meeting held at Vancouver, British Columbia, at which were represented the states of Oregon, Washington, Idaho, Utah and Montana and British Columbia, "Better Fruit" was declared unanimously to be their choice as its official organ and it was so ordered. Therefore we wish to

PERSONAL PARAGRAPHS ABOUT FRUIT GROWERS

A VERY interesting visitor at the office of "Better Fruit" during the past month was Albert Barnes of Honolulu, Hawaiian Islands. Having spent a good many years in the Islands, Mr. Barnes, who was looking for an investment in fruit lands, stated that while he recognized that the Pacific Coast had an unusually mild winter climate his greatest difficulty since arriving in the United States was in keeping warm. He could not, he stated, seem to get on enough clothing after residing in the balmy temperature of Honolulu. Mr. Barnes had been in most of the famous fruit growing districts on the Coast, and was very much impressed with what he had seen of its great development.

E. L. Stewart, president of the Washington State Board of Horticulture, and one of the best known and most successful orchardists on the Pacific Coast, was a welcome visitor at the office of "Better Fruit" recently. In addition to operating his orchard at Prosser, Washington, Mr. Stewart has charge of the large tract near Spokane belonging to the Hazelwood Company. He is a firm believer in the fertility and productive qualities of the soils of both places, and tells us that the former will soon be the greatest producer in the entire Northwest. The Spokane country he considers one of the best adapted

thank every member who was present most sincerely for the high honor accorded us. We feel grateful indeed, and we wish to assure the association at large that we realize fully the duty imposed, and will do our best to fulfill it. Should we fail it will be through accident or the failure of growers in their respective districts in keeping us properly posted as to their doings, their methods and their needs. In conclusion we beg to add that we feel all the more pleased because this honor was conferred unsolicited and without our previous knowledge of it.

ALONG life's thoroughfare are all sorts and conditions of men. The most successful in any line of work are the ones who in addition to their own special knowledge profit by the experience of others. If you are a fruit grower don't fail to do this. You can get the experience of others that are successful in growing fruit by subscribing to "Better Fruit." There is no excuse for remaining within the confines of your own limited experience when for \$1 a year you can get "Better Fruit," containing the experiences of hundreds of the better class of fruit growers in all the famous districts.

COUNTERFEIT money is not popular among honest people. Counterfeit goods are even worse since they are left to prove an additional loss in expense of operation, as perhaps of a spray, and cause a failure or results that are disastrous. When you wish to purchase something that you have seen advertised in "Better Fruit" don't let the salesman sell you an article that he says is "just as good." The "just as good" are often counterfeits that should be shunned just as you would shun counterfeit money.

for fruit raising on the Coast, and also very desirable from a residence point of view. Mr. Stewart has inaugurated reforms and new ideas in the orchard business that have proven of great benefit to growers at large, and his opinions on this subject are well worth listening to. His stop here was the result of a tour he was making of the fruit growing districts on the Pacific Coast, and was his first actual visit at Hood River in the many years he has been on the Coast.

We are informed by Neely & Young, 340 Riverside avenue, Spokane, Washington, that they are handling the Hazelwood Irrigated Land Tract, an illustrated article about which appears on another page, and that they will gladly furnish information and rates upon application.

Roger S. Bennett, proprietor of the Bennett fruit farms at Neosho, Missouri, who was here for the purpose of looking into Hood River methods and also with an eye open to a good investment, looked us up recently. After a close investigation Mr. Bennett's verdict was that Hood River's way of conducting the apple business was so far ahead of that in Missouri that he didn't have to be shown any more. In our talk with him we learned, however, that with a fair or good crop of apples in Missouri big profits were realized. One of the

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Are the best for fruit boxes. They are imitated because we advertise them and our product has an established reputation. The imitator has *no reputation* to sustain. *We have.* You never see an advertisement of the imitations. They are *always offered on our reputation.* It stands to reason that our nails are the best, otherwise we could not afford to advertise them. When you ask for PEARSON'S nails see that you get them. *Don't be imposed upon.*

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things that makes this possible is labor, which is so cheap that a mule team and driver can be secured for ten hours a day at twenty cents an hour. Other labor is proportionately cheaper, so that apples or other fruit do not have to bring much money under these circumstances. Mr. Bennett stated also that while the strawberry business was profitable in Missouri, the uncertainty of the apple crop was turning the eyes of many of the big orchardists toward the Northwest. As the owner and operator of a 160-acre orchard and an 80-acre strawberry field it was, he said, hard for the progressive grower to get the best results. That while he sprayed his

orchard, looked after it carefully, and packed his fruit out in boxes there were so many that did not that it was most discouraging. He was very much taken with this country, and was of the opinion while here that he would invest later in one of the districts on the Coast.

F. H. Hopkins, the well known Medford orchardist, will this year set about 6000 young trees on his Snowy Butte orchard near Central Point. The ground is being prepared, leveled and put in first-class shape for the new stock. Mr. Hopkins, aided by his superintendent, Mr. Pankey, has made this orchard one of the most valuable and famous of the groves in the valley.—Medford Mail.

A FEW INTERESTING ITEMS ON FERTILIZATION

It is comparatively only a recent idea as to the necessity of manuring or fertilizing fruit trees and small fruits for better crops. Many growers are yet of the opinion that orchard crops are not exhaustive to most soils, citing that where trees will grow and thrive without fertilizers orchards will bear large crops indefinitely.

Practical experience, however, teaches that forest growth and fruit growth are different in respect to the needs of fertilizing elements, and it is now acknowledged that progressive fruit culture demands as much attention in providing proper plant food as is known to be desirable for common farm crops to be grown profitably.

General farm crops make their growth and reach the harvesting stage in one season. How different to the orchard after fruit bearing begins! In fruit growing it is necessary that there shall be a constant transfer of the nutritive juices from the tree to the fruit throughout the season, while the crop for the coming year is dependent upon the nutrition drawn from the soil at the same time. There is undoubtedly a difference in the time when fertilizing should begin. When the soil is naturally good the fertilizing need not begin at the time of planting the trees, as the plant food available is usually sufficient to provide for a good growth of leaf and wood, and, in many cases, good crops of fruit for a number of years, but on light soils fertilizing should begin when the tree is set.

Soils vary so much in general character that it is impossible to specify the

amount or kind of material needed for best results. On light soils the need of fertilization is very apparent, and in such cases slow decaying organic matter is recommended. Nothing better for this purpose can be used, we believe, than tankage, which would furnish nitrogen as rapidly as needed by the trees, and yet, as it slowly decays, the benefit from its use would be prolonged throughout at least one growing season and noticeable results should be seen for some time, giving actual demonstration of its long-lived benefits. Some prefer to obtain the necessary nitrogen by growing leguminous crops, such as vetch, crimson clover, etc., etc., and in soils lacking humus marked results have been obtained. When these are used they should be plowed in not too late in the spring, that their growth may not interfere with the growth of the trees. On naturally good ground, for best results, fertilizing for apples or pears should begin as soon as the trees come into bearing. For such use annually, at the rate of 400 pounds per acre, a mixture of 100 pounds each of bone meal, acid phosphate and muriate of potash. Plow in either spring or fall, preferably in the fall. As the trees grow older and the yield of fruit larger, increase the amount.

As before stated, no definite rules can be laid down as to the amount. Many of the best growers find it pays them to use from 1,000 to 1,500 pounds to the acre annually of the mixture above mentioned. In our next talk we will give figures of what crops are taking out of the soil.

CONVENTION OF NORTHWEST FRUIT GROWERS

Continued from page 10

excellence. One of the most pleasing events of the meeting to the Oregon delegation was the ovation received by Mr. E. L. Smith of Hood River, when his name was put in nomination for re-election as president of the association. Although he vehemently declined to accept the office for another year, delegates from British Columbia would hear of no other man for the position, and he was loudly and unanimously acclaimed its executive again.

The Awards

The awards were as follows:

Class 1, best five boxes of apples—First, gold medal, value \$100, awarded to J. D. Honsberger, Grand Forks, British Columbia; second, gold and silver medal, value \$50, awarded to A. I. Mason, Hood River, Oregon; third, the

Birks' silver medal, value \$25, awarded to T. G. Earl, Lytton, British Columbia.

Class 2, best display of fresh fruits—First, gold medal, value \$100, awarded to Kelowna Fruit Growers' Association, Kelowna, British Columbia; second, gold and silver medal, value \$50, awarded to James Rooke, Grand Forks, British Columbia; third, the Birks' silver medal, value \$25, awarded to Chelan County Horticultural Association and Commercial Club, Wenatchee, Washington.

Class 3, best box of commercial apples—First, the Birks' silver medal, value \$25, awarded to A. I. Mason, Hood River, Oregon (Yellow Newtowns Pippins); second, bronze medal, value \$15, awarded to E. H. Shepard, Hood River, Oregon (Esopus Spitzenbergs); third, bronze medal, value \$10, awarded to T. G. Earl, Lytton, British Columbia (Esopus Spitzenbergs).

The Angle Lamp

The cleanest, cheapest, safest lighting method that ever went into a home. Reader can you boast of your light that it "excels gas or electricity with any burner made?" No? Then why not exchange for one of which you can? You pay for artificial light of some sort, for we all do. And for one-third to one-half less than the amount you are now paying you can have the sort of light which would make your friends exclaim how well your home was lighted. All of this we prove by 30 days trial

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 HOSE, NOZZLES
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 Successor to NORTON & SMITH
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**ENFORCEMENT OF LAW
 AIDED BY THE FARMER**

A GREAT many of the readers of your paper reside on farms, some of whom have produce to sell through the commission houses and all of whom will be interested in the law passed by the last Legislature for the purpose of regulating the commission merchants. Much to my surprise, quite a few of the commission merchants have raised serious objections to some of its provisions. As I was instrumental in having the bill drawn, and helped to some extent in its passage, I am naturally interested in its enforcement. We cannot determine whether the law is of any value unless it is enforced. If part of the commission houses act under the law and try to comply with its provisions, it is certainly unfair to them unless the rest of the dealers are forced to do the same.

In order to make the law effective it occurs to me that all of the growers should confine their shipments to licensed commission houses. In addition to this we should call the prosecuting attorney's attention to all such houses as are doing a commission business not in compliance with the provisions of the law.

To ascertain who the licensed commission houses in the state are, I wrote a letter to State Horticultural Commissioner Huntley asking for such a list, and beg to submit herewith the list furnished by that official:

Licensed Commissionmen

Seattle
 Smith & Bloxon, C. W. Chamberlain & Co., Inc., Walter Bowen & Co., J. B. Powles & Co., M. J. Connell, Ferguson, Klyce & Co., Gordon & Co., California Commission Co., Hamill Bros., Hull, Hamlet & Co., L. W. Leavenworth & Co., John Gourley, W. Bigelow & Co.

Spokane
 Rasher, Kingman, Herrin & Co., H. J. Shinn & Co., Washington Produce Co., Charles Uhden, Ryan Newton Company, D. H. Anderson.

Tacoma
 Hammond & Co., Rowland Poultry Company.
Everett
 Everett Produce Company.

In my judgment the provisions of this law (which can be found in Chapter 139, page 266, of the session laws of 1907), are in no way detrimental to an honest commission merchant. If the shipper is willing to pay transportation charges and ten per cent commission on the gross sale of his own products, he is certainly entitled to the balance of the money derived therefrom. The commission merchants claim to charge only ten per cent plus the cost of transportation. If it is a fact that they charge no more than this (and do not wish to charge any more), then, obviously, there should be no conflict of interest.

I have in my possession returns rendered by houses that have not complied with the provisions of this law, to fruit growers who sent them produce for sale. I would be thankful to receive from any shipper similar returns, so that at the proper time complaint may be filed against any and every person violating the law.

By enabling the small grower to find a profitable market for his products, we will accomplish considerable in the way of making this a prosperous commonwealth.

With prosperous farmers, we shall have prosperous cities, and without both our state cannot hope to attain the splendid destiny to which her marvelous

**Okanogan
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 [OKANOGAN COUNTY]

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SOIL—Volcanic ash, rich in phosphates, and recognized as the best in the world for apples and strawberries.

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has the only set of Land Abstract Books of that district, and makes a specialty of Real Estate, Abstracts, Conveyancing, Loans and Insurance.
 HOOD RIVER, OREGON

All sold out of apples except Rome Beauty. Have a few No. 1 Lambert, Bing and Royal Ann Cherries, Foster and Early Crawford Peaches. Keep me in mind another season; will have my usual choice stock to offer. Thanking my friends and patrons for their liberal patronage and soliciting a continuance of the same, I beg to remain, Very truly yours,

H. S. GALLIGAN

HOOD RIVER OREGON

**Underwood and
 Little White Salmon
 Choice Fruit Land for Sale**

I have a number of choice places for sale, improved and unimproved. Some with good heavy timber, ranging in price from \$18.00 to \$100.00 per acre. Some vacant land and relinquishments

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OF BIG, RED APPLES

WE ALWAYS HAVE SOME
CHOICE TRACTS TO OFFER

At popular prices and sell them strictly on their merits.
Years of study given to Hood River and its products.
Can sell you intelligently. Call on or address

Geo. D. Culbertson & Co.

Leading Land Agents Hood River, Oregon

"The Home of the Big Red Apple"

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OREGON

TODD & LANTZ

Real Estate Men, McMinnville,
Oregon, have a line of the
finest fruit, walnut and farm
land in the Willamette Valley.

Correspondence solicited

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Growers and shippers of Famous
Rogue River Valley Newtown and
Spitzenberg Apples, Pears, Peaches,
Cherries, Grapes, Berries and
Melons to long distance markets.
All fruit guaranteed as represented

CHARLES MESERVE.
Secretary and Manager.

GRANTS PASS, OREGON

W. F. LARAWAY

DOCTOR OF OPHTHALMOLOGY

EYES
TESTED



LENSES
GROUND

Over 30 Years' Experience

TELESOPES, FIELD GLASSES
MAGNIFIERS TO EXAMINE SCALE

HOOD RIVER, OREGON
AND GLENWOOD, IOWA

agricultural resources entitle her. I trust you will publish the cardinal facts contained herein, so that they will reach all of your readers who will be interested in and benefited by the building up of markets for our farm products. With best wishes,

W. H. PAULHAMUS,
President Puyallup and Sumner Fruit
Growers' Association.

MARK LEVY, head of the firm of Mark Levy & Co., the pioneer fruit commission firm of Portland, announced recently that he had purchased the interests of his brother, B. H. Levy, in the business at 121-123 Front street, and would hereafter have sole charge of it. The business will be conducted under the old name.

"Probably no man in the fruit trade of the Northwest," says the Telegram, "is better known than Mark Levy. Starting twenty-five years ago the first wholesale fruit house in the city on Front street, just opposite his present place of business, he has seen the fruit and produce trade of the city grow from a small beginning to one of mammoth proportions. The growth of the banana traffic, for instance, is illustrative. Mr. Levy said today that in the early days of the wholesale fruit trade of the city the sight of a bunch of bananas on Front street was so unusual a thing as to cause comment. Now banana shipments to the city range throughout the year from three to half a dozen carloads a week. The growth of the fruit business in other lines has been about the same.

"The first carload of fruit ever shipped out of Portland to the East was dispatched by Mr. Levey more than twenty years ago, shortly after the completion of the Northern Pacific road. This first offering of Oregon fruit for the markets of the East consisted for the most part of pears and plums, and the starting of the car eastward was an event of interest at the time. Now thousands of cars of apples, pears, prunes and other fruits are shipped out of the state every year.

BOOKS we have read, own and recommend which can be ordered of your local stationer, or direct. The initials after the name represent the publishers, whose address can be found at the end of the list. These books can be ordered of the J. K. Gill Company, Portland, Oregon.

Fruits and Fruit Trees of America— <i>Downing</i>	W	\$4.50
California Fruits— <i>Wickson</i>	P	2.50
Success with Small Fruits— <i>Roe</i>	DM	.75
American Fruit Culturist— <i>Thomas</i>	WW	2.50
Strawberry Culturist— <i>Fuller</i>	J	.50
The Principles of Fruit Growing— <i>Bailey</i>	M	1.25
Bush Fruits— <i>Card</i>	M	1.50
Horticulturists' Rule Book— <i>Bailey</i>	M	.75
The Nursery Book— <i>Bailey</i>	M	1.00
Pruning Book— <i>Bailey</i>	M	1.50
Cyclopedia of Horticulture— <i>Bailey</i>	D	30.00
Nut Culturist— <i>Fuller</i>	J	.75
Insects Injurious to Fruits— <i>Saunders</i>	L	2.00
Fungi and Fungicides— <i>Weed</i>	J	1.00
Insects and Insecticides— <i>Weed</i>	J	1.50
Spraying Crops— <i>Weed</i>	J	.50
Spraying of Plants— <i>Lodeman</i>	M	1.00
Talks on Manure— <i>Harris</i>	J	1.50
Farming with Green Manures— <i>Harlan</i>	F	1.00
Fertilizers— <i>Voorhees</i>	M	1.00
Irrigation Farming— <i>Wilcox</i>	J	2.00
Irrigation for Farm, Garden and Orchard— <i>Stewart</i>	I	1.50
Irrigation and Drainage— <i>King</i>	M	1.50
Gardening for Profit— <i>Henderson</i>	J	1.50
New Onion Culture— <i>Greiner</i>	J	.50
New Rhubarb Culture— <i>Morse</i>	J	.50
Asparagus— <i>Hexamer</i>	J	.50
Vegetable Gardening— <i>Green</i>	WP	1.25
A B C of Potato Culture— <i>Terry</i>	R	.45
Tomato Culture— <i>Root</i>	R	.35

VEHICLES AND AGRICULTURAL IMPLEMENTS

THE BEST OF
ORCHARD AND GARDEN TOOLS
A SPECIALTY

J. R. NICKELSEN
HOOD RIVER, OREGON

A Trip to the Coast

Is incomplete without a ride
on the

Mt. Hood Railroad

By Mountain Streams, Apple Orchards
Virgin Forests and Snow
Capped Peaks

Connects with O. R. & N.
at Hood River, Oregon

OLDEST LIVERY COMPANY IN
THE VALLEY

TRANSFER & LIVERY CO.

Special Attention to Commercial
Men, Camping & Fishing Parties

TELEPHONE MAIN 131
HOOD RIVER, OREGON

St. Helens Hall

Portland, Oregon

A GIRLS' SCHOOL OF THE HIGHEST CLASS

CORPS OF TEACHERS, LOCATION,
BUILDING, EQUIPMENT THE BEST

Send For Catalogue

THE WHITE STAMP AND SEAL COMPANY

MANUFACTURERS OF
STENCILS

AIR CUSHION RUBBER
STAMPS, RUBBER TYPE,
NOTARY, LODGE AND
CORPORATION SEALS

PORTLAND, OREGON

Established 1863 by J. H. Settlemier
420 Acres Devoted to Nursery Purposes

THE WOODBURN NURSERIES

FRUIT TREES, SHADE TREES,
SMALL FRUITS, ORNAMENTAL PLANTS,
EVERGREENS, ROSES, ETC.

THE WOODBURN NURSERIES have been in existence
forty-four years with only one change of owner-
ship. Tree growing is our profession and our stock
is not the result of experiments, but knowledge.

F. W. SETTLEMIER

Agents Wanted **WOODBURN, OREGON**

TEMPLETON AND GRAHAM

125 FRONT STREET
PORTLAND, OREGON

Respectfully solicit your consignments and
guarantee satisfaction. Located in the heart
of the wholesale district we are splendidly
prepared to get the best prices for anything
you have to sell. *Write us when you have
anything to offer.*

WHITE SALMON

WASHINGTON, OPPOSITE HOOD RIVER

ON the line of the new rail-
road being constructed as
a part of the big Hill system
down the Columbia River.
Fruit lands the same as in the
famous Hood River Valley but
lower in price. Apples have
taken prizes in competition
with Hood River fruit. It has
the earliest strawberries at
the biggest prices along the
Columbia River. Buy now
before railroad is completed.
Prices are advancing. Fine
unimproved fruit land twenty-
five to forty dollars per acre.
Easy terms. Address or see

R. FIELD & CO.

WHITE SALMON, WASHINGTON

Melons—Burpee	B	.20
The Vegetable Garden—Vilmorin	D	4.50
The Forcing Book—Bailey	M	1.00
Garden Making—Bailey	M	1.00
Practical Garden Book—Nunn & Bailey	M	1.00
Hedges and Windbreaks—Powell	J	.50
The Soil—King	M	.75
Fertility of the Land—Roberts	M	1.25
The Farmstead—Roberts	M	...
Rural Wealth and Welfare—Foirchild	M	...
Farm Poultry—Watson	M	1.25
How the Farm Pays—Crosier & H.	H	2.00
The First Book of Farming—Goodrich	D	1.00
Cyclopedia of Agriculture	J	4.50
The Principles of Agriculture—Boiley	M	1.25
Roses and How to Grow Them—		
Sibson & Holman	G	.50

ABBREVIATIONS

Pacific Press Pub. Co., San Francisco, Cal.	P
Orange Judd Co., New York	J
Webb Publishing Co., St. Paul, Minn	WP
A. C. Root Co., Medina, Ohio	R
W. Atlee Burpee, Philadelphia	B
J. H. Gregory, Marblehead, Mass.	G
Doubleday, Page & Co., New York	D
A. T. Ferris, Shea	F
John Wiley & Sons, New York	W
W. W. Wood & Co.	WW
J. B. Lippincott & Co., Philadelphia	L
J. K. Gill & Co., Portland	G
MacMillan Co., New York	M
P. Henderson & Co., New York	H

WHAT ADVERTISERS SAY OF BETTER FRUIT

PORTLAND COMMERCIAL CLUB

Tom Richardson, Manager

Portland, Oregon, October 21, 1907.

Better Fruit Publishing Co., Hood River, Oregon:
Now don't you imagine for a moment that I
am lonesome for something to say about "Better
Fruit." I hear something nice about "Better
Fruit" every day, and a man don't have to go
far out of his way to say something nice about
a publication like yours. Very sincerely,

TOM RICHARDSON.

VINELAND NURSERIES COMPANY.

Clarkston, Washington, October 26, 1907.

Better Fruit Publishing Co., Hood River, Oregon:
We are very much pleased with the last num-
ber of "Better Fruit." Typographically it is a
beauty and the reading matter, if carefully perused
by orchardists, nurserymen or shippers, will be
of great value to all interested along these lines.
We congratulate you on the effort you are making
to get out a thoroughly representative paper for
a representative fruit country. May you meet
with the success you deserve. Yours very truly,

VINELAND NURSERIES COMPANY.

TRUE TO NAME NURSERY

Hood River, Oregon, November 4, 1907.

Better Fruit Publishing Co., Hood River, Oregon:
Have been reading with much pleasure and
profit the October issue of "Better Fruit," and
must say I believe it surpasses any previous num-
ber; at any rate is of great benefit to nurserymen
on the Pacific Coast. Any copy is well worth a
year's subscription. It certainly is an advertiser.
I get more inquiries from my ad. in "Better
Fruit" than all others combined. With best
wishes for the continued success of your paper,
I remain, very truly yours, H. S. GALLIGAN.

PORTLAND SEED COMPANY

Portland, Oregon, October 28, 1907.

Better Fruit Publishing Co., Hood River, Oregon:
We thought "Better Fruit" was about right a
year ago, but each issue seems to produce "better
fruit" than the preceding. This applies to the
valuable reading matter, illustrations, general
makeup, and last but not least, the pulling power
as an advertising medium. "Better Fruit" is O.
K. in every way. Yours respectfully,

PORTLAND SEED COMPANY,

R. R. Routledge, Advertising Manager.

OREGON NURSERY COMPANY, LIMITED.

Salem, Oregon, October 29, 1907.

Better Fruit Publishing Co., Hood River, Oregon:
We have the October number of "Better Fruit"
and was certainly very much pleased with this
edition. Your paper is doing a great work for
the fruit growing interests of this Coast, as well
as being a valuable medium for advertising the
Coast in the Eastern States. It is certainly the
finest illustrated and typographically the best
horticultural paper on the Coast, if not in the
United States. Yours truly,

OREGON NURSERY COMPANY,

By F. W. Power.

FANCHER CREEK NURSERIES

Fresno, California, October 26, 1907.

Better Fruit Publishing Co., Hood River, Oregon:
We wish to take this opportunity of compli-
menting you on your publication. We regard it
as one of the neatest and best printed papers on
the Pacific Coast. We have always been of the

BERRY PLANTS

OVER FORTY VARIETIES OF
STRAWBERRIES, RASPBERRIES,
BLACKBERRIES, PHENOMENALS,
LOGANS, CURRANTS, VICTORIAS,
MAMMOTHS, DEWBERRIES, ETC.

J. O. HOLT EUGENE,
OREGON

SEND FOR PRICE LIST

Virginia Fruit Farms

IN THE NOTED ALBEMARLE REGION

Full List upon Application to

H. W. HILLEARY & CO
CHARLOTTESVILLE, VIRGINIA

OAKDALE GREENHOUSE

Choice Roses, Shrubbery, Vines. Gladiolas a
Specialty. White Wyandotte Chickens

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HOOD RIVER, OREGON

AGENTS WANTED

Can you sell goods? If so we need you. Complete
outfit free; cash weekly. *Write for choice of territory*

CAPITAL CITY NURSERY COMPANY
SALEM, OREGON



When you get to Hood River
stop at the

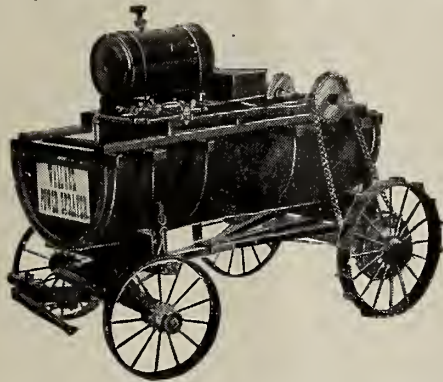
MT. HOOD HOTEL

Trains stop directly in front of
Hotel. ☞ Bus meets all boats

Daily stages for Cloud Cap
Inn during months of July,
August and September

WALLACE AUTOMATIC COMPRESSED AIR SPRAYER

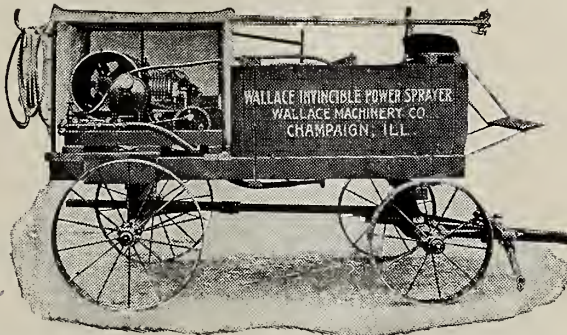
Without a cent of cost for power, will do as much spraying in a day as would cost you from \$7 to \$12 for power by some methods. How long would it take to pay for a machine at this rate? Here is the Wallace Standard Automatic Sprayer.



It is sold completely mounted, or unmounted to fit your wagon if desired. It will do all ordinary orchard work and more of it than any other automatic machine built except our Duplex. Dr. C. A. Oliver of Chico, California, in ordering a second machine, says: "I have used my Standard Sprayer for four years with perfect satisfaction." We have a hundred other testimonials of like character. The Illinois Orchard Company has sixteen of these machines. The lower cut shows the Wallace Invincible Mounted Sprayer. Simplicity is the specially attractive feature of this type of engine power sprayer. Every

part is immediately accessible. The engine is our special design (2½ H. P. air cooled, 2 H. P. water cooled), and is guaranteed to develop rated capacity. Its construction is extremely simple and there are no delicate parts to get out of order or to need adjustment.

The pump is of the famous Wallace type, all brass with no large openings to collect sediment. The air chamber or pressure tank is extra large, insuring uniform and steady pressure. The Wallace patent nozzle protecting device is worth \$25 on any spraying outfit. It absolutely prevents clogging of the nozzles and is self-cleaning. Nothing like it anywhere else. We build every kind of sprayer from the small hand power pump to the largest engine power. We also sell Paris Green, Arsenate of Lead and the famous Target Brand Scale Destroyer. Prices f. o. b. Portland quoted on application. Send for our catalog No. 1



WALLACE MACHINERY CO., Champaign, Illinois

BURBANK & AMOS

REAL ESTATE

Irrigated Fruit Lands in the Famous Vale of Cashmere
The Garden Spot of Washington

CASHMERE, WASHINGTON

WHOLESALE

RETAIL

THE DALLES NURSERIES

R. H. WEBER, *Proprietor*

THE DALLES, OREGON

Grower and Dealer in FRUIT,
SHADE AND ORNAMENTAL

TREES

GRAPE VINES & SMALL FRUITS
EVERGREENS, ROSES & SHRUBBERY

REMEMBER—OUR TREES ARE GROWN STRICTLY
WITHOUT IRRIGATION

Cedar Hill Nursery Co.

Winchester, Tennessee

Offer great inducements to all planters
who are in want of well grown nursery
stock. Write for catalogue and prices.

GRAPE LAND

The Rogue River Valley,
"The Italy of America"

TOKAY GRAPES

The Finest in the World
Soil and Climate Unsurpassed

Get in touch with

**THE W. B. SHERMAN
REALTY CO.**

GRANTS PASS, OREGON

opinion that a paper printed like this and having good cuts and using a good quality of paper to show the cuts as well as the printed matter in good form, would be sure to appeal to every fruit grower and farmer in the country. In addition to the excellent makeup of your paper, it has another point in its favor, and that is that it is full of valuable information. Every horticulturist who desires to keep up to date should be a subscriber to your valuable publication. Yours very truly,
FANCHER CREEK NURSERIES.

RUSSELLVILLE NURSERIES

Portland, Oregon, October 30, 1907.
Better Fruit Publishing Co., Hood River, Oregon:

We are in receipt of "Better Fruit" and wish to express our appreciation of the same. "Better Fruit" is a clean, attractive, up-to-date paper, and meets the needs of the western fruit grower. We take pleasure in recommending it to our patrons and friends. Very truly yours,

RUSSELLVILLE NURSERY COMPANY.

PUYALLUP NURSERY,

A. Lingham, Proprietor.

Puyallup, Washington, November 23, 1907.
Better Fruit Publishing Co., Hood River, Oregon:

"Better Fruit" ranks among the leading horticultural magazines of today, invaluable alike to the home planter and commercial orchardist. It gives practical details governing all branches of the industry following along educational lines. The results achieved by successful orchardists prove interesting object lessons for those entering this field, and the articles and illustrations on correct packing and labeling of fruit packages are very important features of the work mapped out by you. As an advertising medium it appeals to the planter and advertiser from the standpoint of quality and reliability. Horticulture has made rapid progress of late on the Coast, and the future opens up unlimited possibilities in all branches of the fruit industry. The educational work calls for untiring efforts on your part, and we trust the labor already undertaken will continue along the same lines, receiving its full share of success and support. Very truly yours,
A. LINGHAM.

THE SUNNYSIDE NURSERY COMPANY.

Sunnyside, Washington, October 31, 1907.
Better Fruit Publishing Co., Hood River, Oregon:

We believe your magazine is a winner. I was pleased to see that you had push enough to distribute some of your magazines in Kansas. While in the depot at Topeka I found some of them. This is a move in the right direction. People in the East do not know what a great country this Northwest is, and are unable to comprehend what the future has in store for us, and such publications as "Better Fruit" is an eye opener to them.

SUNNYSIDE NURSERY COMPANY,
F. K. Spalding, President.

CAPITAL CITY NURSERY COMPANY

Salem, Oregon, October 23, 1907.
Better Fruit Publishing Co., Hood River, Oregon:

We wish to compliment you for the valuable services you are rendering this state by encouraging the fruit industry in showing to our own citizens, as well as Eastern people, the profit derived from fruit growing in Oregon. Not only so, but through your columns fruit growers are being educated to follow methods of growing, packing and marketing their crops which enables them to realize handsome profits in contrast to little or no profit. We find your columns valuable as an advertising medium in reaching the desired results not only in our own state, but throughout the Eastern States. May you continue to be a factor in developing our state.

CAPITAL CITY NURSERY COMPANY,
E. A. Bennett, President.

THE DALLES NURSERIES

R. H. Weber, Proprietor
Better Fruit Publishing Co., Hood River, Oregon:

The October number of "Better Fruit" has reached me, and I find it the most complete and up to date issue of any fruit paper that has ever come to my notice. The nurserymen of the Northwest should be especially thankful to you for giving them so much valuable space in the best fruit paper on earth. Wishing you every success in the future, I remain, yours very truly,
R. H. WEBER.

J. J. BUTZER

Portland, Oregon, October 23, 1907.
Better Fruit Publishing Co., Hood River, Oregon:

I want to express my opinion as to the good work you are doing for us poor humble beings, but have held back for a long time as I supposed that you would soon get to the end with your educational work. But there seems to be no limit, so I can't hold my thoughts from you any longer. It is certainly with pleasure that I read and study every copy of "Better Fruit," and you know how busy I am, but I somehow find time to read "Better Fruit" and am always anxious for the next copy. I have always said all that we wanted in this Pacific Northwest was some publication that would educate the fruit grower, and we would soon be known the world over for the best fruits that grow on the earth. J. J. BUTZER.

Our Unparalleled Clubbing Offers

"Better Fruit" offers to readers what it considers the finest list of clubbing offers ever placed before the public in the Northwest. Its variety is one that must appeal to readers of all classes. Look it over carefully, select the one you want and send us the proper amount and we will do the rest.

World's Work\$3.00
The Delineator 1.00
McClure's Magazine 1.00
"Better Fruit" 1.00

\$6.00

All for\$3.35

Review of Reviews.....\$3.00
Success Magazine 1.00
"Better Fruit" 1.00

\$5.00

All for\$3.00

Sunset Magazine\$1.50
Road of a Thousand Wonders. .75
"Better Fruit" 1.00

\$3.25

All for\$1.50

Pacific Monthly\$1.50
Weekly Journal 1.00
"Better Fruit" 1.00

\$3.50

All for\$2.00

Weekly Oregonian\$1.50
"Better Fruit" 1.00

Both\$1.50

Oregon Agriculturist\$1.00
"Better Fruit" 1.00

Both\$1.25

American Fruit and Nut
Journal\$1.00
"Better Fruit" 1.00

Both\$1.50

These clubbing rates do not apply in
Canada owing to extra postage



POTASH

in the fertilizer in generous quantities makes heavy yields of clean and sound vegetables and fruits.

Strong and lusty plants resist the attacks of insects and germ pests.

Plenty of Potash in the fertilizer assures the best crops.

Our Book, "Potash in Agriculture," is *free* to farmers. May we send it to you? Address

GERMAN KALI WORKS, 93 Nassau Street, New York
Atlanta: 1224 Candler Building Chicago: Monadnock Building

MEYER, WILSON & CO. of San Francisco, California, are Sole Agents for the Pacific Coast

When you are ready to order your Fruit Trees, Vines, Shrubbery, Rose Bushes, Etc., be sure to communicate with me. Get my catalogue now; it tells how to set out and care for an orchard. I have only the

FINEST NURSERY STOCK

The best adapted to the Pacific Northwest. My prices are very reasonable. Write for free catalogue at once

BARTLETT AND WINTER NELIS PEARS
\$22.00 PER ONE HUNDRED

No discount on one hundred crates

PAUL G. KRUGER, Nurseryman, North Yakima, Washington

Eugene Real Estate and Investment Company

The very best FRUIT LANDS in the Willamette Valley

DAIRY FARMS, TIMBER LAND, CITY PROPERTY, INSURANCE AND LOANS 544 Willamette St., Eugene, Oregon

CHERRY GROWERS, YOUR ATTENTION

Royal Ann, Bing and Lambert Trees and also a complete assortment of Spitzenbergs, Newtowns and other fruit trees

A. HOLODAY

MONTE VISTA NURSERY
SCAPPOOSE, OREGON



FLAT HOOPS-IRON DRAW-LUGS

TANKS

Accurately constructed tanks for most any purpose. Write for our illustrated catalogue and prices.

GRAYS HARBOR
COMMERCIAL CO

ALASKA BLDG. SEATTLE, WASH.

H. S. EMERSON CO., Inc.

919-921 WESTERN AVENUE, SEATTLE, WASHINGTON

We always want fancy fruit. If you have anything to sell or consign, tell us all about it. Rubber stamp sent on request.



Make Your Farm Wagon Ride Easier and Last Longer

It doesn't take 80 seconds to slip a pair of Harvey Bolster Springs under your wagon-bed and forever end the continual bumping and wear and tear which soon puts any wagon out of business. You can save many a dollar by marketing your potatoes, eggs, fruit, etc., in a wagon that doesn't jam, break and bruise them, for it is a well-known fact that truck-buyers pay $\frac{1}{4}$ to $\frac{1}{2}$ less for fruits and vegetables which are marketed in a wagon without springs. With Harvey Springs, without getting it scratched or smashed to pieces.

FREE Trial to You

on your wagon you can bring home furniture, glassware, etc., without getting it scratched or smashed to pieces. Why not save money and at the same time ride easily and comfortably on long-lasting Harvey Springs? **HARVEY BOLSTER SPRINGS** are scientifically made, leaf by leaf, from the very best tempered steel. We positively guarantee every pair to give satisfaction in every way. **TRY THEM AT OUR RISK!** We want you to use Harvey Springs on your wagon **FREE** for 30 days to find out for yourself that they're everything we claim—just as good as we tell you they are. This trial won't cost you a penny. Drop us a postal, giving weight of your heaviest load and your dealer's name, and we'll send you our catalogue and arrange with him to give you a set on 30 days' Free Trial. Be sure to write TODAY—before you lay down this paper. Harvey Spring Co., 554 17th St., Racine, Wisconsin

ROGUE RIVER VALLEY

ONE OF THE FINEST IN THE NORTHWEST

FOR INFORMATION CONCERNING CHOICE FRUIT LANDS, ORCHARDS AND OTHER REAL ESTATE OF ALL DESCRIPTIONS, WRITE TO

For references see former issues of "Better Fruit"

H. C. GALEY, ASHLAND, OREGON

The Best Agricultural Sprays in the world "Lion Brand"

PURE PARIS GREEN for Chewing Insects
CALIFORNIA WASH for San Jose Scale
ARSENATE OF LEAD for Chewing Insects

BORDEAUX MIXTURE for Rot, Blight and Mildew
KEROSENE EMULSION for Sucking Insects, Lice
Put up in convenient sizes, and at RIGHT PRICES

Send for our booklet, When, Why and How to Spray. **THE JAMES A. BLANCHARD CO.**
The Largest Manufacturers of Agricultural Sprays in the U. S. NEW YORK CITY, N. Y.

"A Wise Investment is Often More Profitable Than a Life's Labor"

Two thousand acres of level and fertile land in one entire body in wild hay, will be under Government water system, nicely situated for subdivision; a good speculation. Price for entire tract, \$15.00 per acre. Two hundred and seventy acres fruit or alfalfa farm, mostly Rogue River bottom land, about 100 acres already in alfalfa, which will raise four crops a season; good buildings; 200 acres under ditch owned by the place, with plenty of water. Price, per acre, \$60.00.

Seven hundred-acre farm on Rogue River, 250 acres in cultivation, 40 acres in alfalfa; large and good buildings and right on the Southern Pacific Railroad. Price for the entire tract, \$30.00 per acre.

We have many thousands of acres of fertile lands for sale at reasonable prices

WHITE & TROWBRIDGE, Medford, Oregon

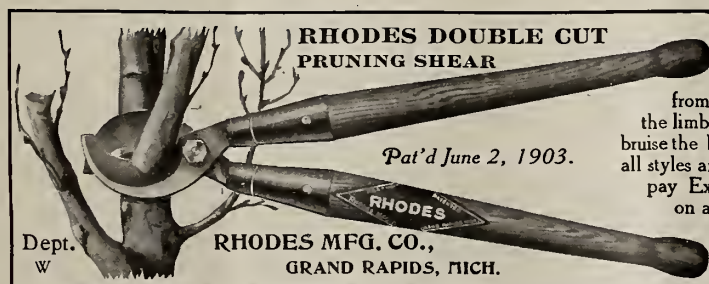
FREE INFORMATION

Furnished those desiring same, concerning FRUIT, WHEAT AND IRRIGATED LANDS adjacent to Prosser in the lower Yakima valley

Write or call on

McNEILL & STAM, REAL ESTATE BROKERS

PROSSER, WASHINGTON



RHODES DOUBLE CUT PRUNING SHEAR

Pat'd June 2, 1903.

RHODES MFG. CO.,
GRAND RAPIDS, MICH.

THE only pruner made that cuts from both sides of the limb and does not bruise the bark. Made in all styles and sizes. We pay Express charges on all orders. Write for circular and prices.

HILL MILITARY ACADEMY

A BOARDING and Day School for Boys
Manual Training, Military Discipline, College Preparation. Boys of any age admitted at any time.

WRITE FOR
ILLUSTRATED
CATALOGUE

DR. J. W. HILL
PROPRIETOR AND PRINCIPAL
PORTLAND, OREGON

Salem Tile Factory



GOLD MEDAL

Highest award on Tile at Lewis and Clark Fair

Tile From 3 to 12 Inch

Order carload lots or for further particulars write for booklet or call on or address

J. E. MURPHY

Fairgrounds Post Office, Oregon

FRUIT TREES

We have the soil and the climate. Years of experience have given us the knowledge. Therefore we can give you the best nursery stock that can be grown. Give us a trial and be convinced. Catalogue free

SALESMEN WANTED

CHICO NURSERY CO.

CHICO, CALIFORNIA

\$15
15
30

DOUBLE YOUR SALARY

Don't spend spare time thinking what you might be if your salary were doubled! *Doing*, not thinking, will make your wish a reality. Our free booklet, "Are Your Hands Tied?" tells you what to do and how to do it. Thousands have already doubled or largely increased their salaries by following our plan. Under our guidance you can do the same. Act today! I. C. S. Text-books make it easy for those already at work to

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Mechanical, Steam, Electrical, Civil, Mining, Telephone, and Telegraph Engineering; Shop and Foundry Practice; Mechanical Drawing; Architecture; Plumbing; Sheet-Metal Pattern Drafting; Chemistry; Ornamental Design; Lettering; Book-keeping; Stenography; English Branches; Teaching; Locomotive Running; Electrotherapeutics; German; Spanish; French.

Circular free. State subject that interests you.

INTERNATIONAL CORRESPONDENCE SCHOOLS,
Box 799, SCRANTON, PA.

H. V. REED, Portland Agent, 64½ Sixth Street

SMALL FRUIT PLANTS

AT WHOLESALE PRICES

Cumberland Black Cap Raspberry,
Phenomenal Berry, Loganberry.
All best varieties of Blackberries,
Raspberries, Currants, Goose-
berries, Strawberries, Dewberries.

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F. H. BURGLEHAUS,
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A Fruit Home in Southern Washington

Take advantage of the low rates to the Pacific Coast and come to White Salmon, Washington. The finest fruit country in the world. Our Newtown and Spitzenberg Apples command the highest prices in the world's markets. Our Strawberries are the earliest in the northwest. The very best fruit land \$25 per acre. Ten acres make a comfortable home and a good living for any family. Located across the Columbia river from Hood River Oregon.

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Estes Realty & Investment Company WHITE SALMON
WASHINGTON

MOSIER

Also called East Hood River

FRUIT LANDS

In large or small tracts. Some very good land at low prices at present. Good growing community. Six miles east of Hood River. Also homesteads and relinquishments. Parties wishing to buy will do well to write or see

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The Best Nursery Catalogue For the Northwest

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Beautify Your Homes *Now is the time to plant Roses*

There are none better, and few
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The Sibson Rose Nurseries

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Large field grown plants, strong, healthy and true

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Established 1900
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Butler Banking Company

HOOD RIVER, OREGON

Capital Fully Paid \$50,000

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We give special attention to GOOD FARM LOANS

If you have money to loan we will find you good Real Estate security or if you want to borrow we can place your application in good hands and we make no charge for this service

The Managing Officers of this Bank have been residents of Wasco County for more than twenty-five years

Strawberry Plants

That pay to plant are the kind we grow

We have for this season the largest acreage of plants we ever grew. We have had unusually favorable weather and never grew such a fine lot of strawberry plants. Our supply consists of at least ten million plants of all the leading varieties both old and new. We have shipped a large number of plants the past two seasons to the Northwestern states that have always given satisfaction. We are prepared to fill orders for any amount. We also grow Raspberry, Blackberry, Dewberry and all other small fruit plants, the quality of which is unsurpassed. If you want plants now, write for prices, stating your wants. Our new catalog will be ready to mail about January 1. IT IS FREE, WRITE FOR A COPY NOW.

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WALNUT TREES

PURE SECOND GENERATION STOCK of

MAYETTES AND
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SELECTED BY ME DURING MY RECENT VISIT TO FRANCE

10,000
BARTLETT
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First-Class Yearlings

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Specialist in Nut Trees and Fine Ornamentals
Full Line of Fruit Trees, Shrubs, Roses, Etc.

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THE ROGUE RIVER VALLEY THE CREAM OF CREATION

Has again demonstrated by the great crop of fruit now set for 1907 that this is the surest in its crop production of any part of America. This fact makes this district look good to the trained horticulturists of all other sections of the Northwest. When it is conceded that orchards approaching the bearing period here are held at less than one-half the figures demanded for similar lands in other districts yielding less net profits than here, it should impress the readers of "Better Fruit" that now is the time to invest in this favored valley, with its regular crops and famous good climate. The homeseeker will get the benefit of more than twenty years' experience in the fruit business by dealing with the

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Wholesale Shippers and Packers of Oregon Fruit and Produce
Our Specialties: Royal Anne Cherries, Bartlett Pears, Grapes, Italian Prunes and Peaches

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RELIABLE DEALERS IN
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Try a pair of American Lady
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We make a special feature of
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Our Newtown Pippins are fine quality,
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Pear orchard net yield \$500 per acre.
Land finely located \$30 per acre and
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Okanogan Fruit Lands

Are a safe investment. We have land in tracts
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Also a number of good wheat, stock and dairy
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For the general news of the
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how to obtain the best results
in cultivating the soil, Stock
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You can secure this excellent
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WE ALWAYS GET THE HIGHEST PRICES

WE SHIP TO THE FOLLOWING MARKETS NAMELY:

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Has same standing in the Flour Trade that Hood River Apples have in the Fruit Trade. *Made by*

**HOOD RIVER
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Money for You

If you buy land in Umatilla County, Oregon. I have a large list of wheat, alfalfa and fruit ranches for sale that are money makers. Write for literature

A. O. JOHNSON
FREEWATER, OREGON

FOR SALE

One hundred and sixty acres of No. 1 Rogue River Valley fruit land; house, barn, good well, 30 acres under cultivation, 50 bearing fruit trees; 7 miles from Grants Pass; on best road in county; \$25 per acre. Address

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GRASSELLI'S ARSENATE OF LEAD

For the Destruction of the Codling Moth and All Leaf-Eating Insects, Use Grasselli's Arsenate of Lead



CODLING MOTH

Grasselli's Arsenate of Lead is manufactured only by The Grasselli Chemical Company, established 1839, General Offices, Cleveland, Ohio. When applied, ordinary rains will not wash it off. It is not injurious if applied unskillfully or in too great quantities. Grasselli's Arsenate of Lead can be used successfully against all leaf-eating insects, including the Codling Moth, Canker Worm, Elm Leaf Beetle, Potato Bug, Gypsy and Brown-tail Moth, etc. Grasselli's Bordeaux Mixture—a preventive of all fungous diseases. Grasselli's Bordeaux-Lead Arsenate Mixture—an insecticide and fungicide combined in one effective article. Write for descriptive booklet, giving information how and when to spray.

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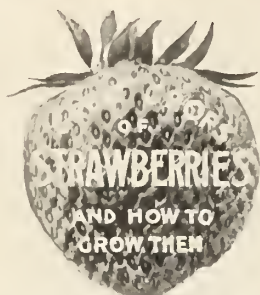
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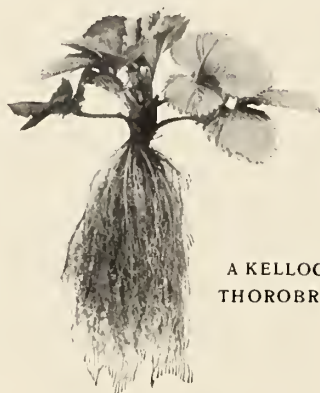


Send for Free Copy of

"Great Crops of Strawberries and How to Grow Them"

If you want to know how to grow big crops of big red strawberries and how to get big prices, send for our 1908 book. Don't think of getting along another season until you have it. It tells all about soil preparation, setting, mating, pruning, cultivating, spraying, mulching, picking, packing and marketing. All of these essential features and many more are explained in such a way that you can't go wrong. It was written right out in the strawberry field by a man who has made a fortune growing strawberries, and he tells you just exactly how he does things. Beautifully illustrated, mighty interesting. You may wonder how we can afford to send you this valuable book free. Well, you see, it's just like this:

WE HAVE THE LARGEST STRAWBERRY PLANT FARM IN THE WORLD



A KELLOGG
THOROBRED

Note the Full Crown and Well
Developed Root System

And our THOROUGHbred PEDIGREE PLANTS have won the world's highest fruiting record. They have lifted many a man out of failure and boosted him to triumphant success. Perhaps you are one of these fellows who has an ambition to be the Strawberry King of your section. If you have, and you ever read this book, it will open your eyes. You will then see how easy it is to make money in the strawberry business when you have the right kind of plants and follow the proper methods.

It is a pleasure to grow strawberries when you can get bigger crops, bigger berries, and bigger prices than the other fellow. This book shows you just how to do this very thing. It is crowded brim full of good things from beginning to end. Every page has a picture of a strawberry or of a strawberry field, showing actual results obtained by growers who use THOROUGHbred PEDIGREE PLANTS. These fellows are just bubbling over with enthusiasm, and that's what helps a man over the rough places. They say this book is worth its weight in gold. We say it is worth more—it's a regular gold mine to those who follow its instruction. Send and get one and see for yourself; your address—that's all. The Book's free.



ON THE KELLOGG FARM

R. M. KELLOGG & CO. BOX NO. 355, THREE RIVERS, MICH.

Fine Rogue River Orchard for Sale

Owing to circumstances over which I have no control I will sell my fine twenty-five acre orchard in the Rogue River Valley. Fifteen acres are in Spitzenberg apples, six in peach trees in full bearing and the rest set to Newtowns, Kings, Gravensteins and one row of Ben Davis for pollenizers. The number of Spitzenberg trees is one thousand and they began bearing this year. On the place is everything necessary to conduct a first class orchard, all of which will be included in the sale and among which are: Niagara Sprayer, 100 gallon capacity, with four gas drums; apple house built of stone, double walled and of five cars capacity; six room house ceiled, painted and fitted with running water, running water also in barn; fine heavy farm team educated to orchard work; also all kinds of farm implements, plows, harrows, cultivators, Studebaker buggy, Bain wagon and Electric steel wagon. In addition there are three acres of pasture containing some cherry and quince trees one year old.

The place is ideally situated on a hard, smooth road three miles from post office with perfect air, drainage, surrounded by grand scenery and in a climate unsurpassed anywhere

PRICE \$10,000.00

One-half cash, balance payments at 6 percent.

Address BETTER FRUIT, BOX A, Hood River, Oregon, and do not write unless you want a bargain on the above terms in one of the finest fruit countries on the Pacific Coast

Apple Grafts

Piece and Whole Root

Fruit Tree Stocks

Including

Apple, Cherry, Plum, Pear

Numbers One, Two and Three

Manetti and Quince Stocks

Number One and Two

Large General Nursery Stock

Pleased to Quote Prices

The

Shenandoah Nurseries

D. S. Lake, *Proprietor*

Shenandoah, Iowa

USE REX SPRAY, KNOWN AS REX LIME & SULPHUR SOLUTION

In every fruit growing section of the United States where **Rex Spray** has been used, fruit growers are praising its merits. No other spray has been put to such severe tests. No other spray has won such universal favor. During the past year in California, during the spraying season, it rained almost constantly before and for weeks after the spraying was done, yet in spite of this **worst of disadvantages**, its superior merits were fully and conclusively proven. Throughout California, Oregon, Washington, Idaho, Utah, Colorado and many Eastern and Southern states **Rex Spray** has been used for San Jose Scale, Howard Scale and many other insects, also for various Fungus troubles, for Apple Mildew, Peach Mildew, Green Aphis, Woolly Aphis, Leaf Curl, Peach Twig Borer, Apple Scab, Pear Scab, Grape Mildew, Black Knot of the Grape Vine, and other troubles, and the one very important point that has been proven is that **Rex Spray** covers and is successfully used for a **much wider range** of insect pests and fungus troubles than any other spray known. On account of its wide range of values it will of course require time to determine the best month or time to spray for best results for some specific troubles. Oil, distillates, and poison sprays are injurious to trees, berry canes and vines, while **Rex Lime and Sulphur Solution** is non-poisonous, and is a tonic and positive benefit to the trees, canes and vines, and its benefits last for weeks.

EVERY GROWER OF FRUIT should spray at least once each year with **Rex Lime and Sulphur Solution** to protect against the many different things which its use covers. It costs from 2 to 6 cents per tree, while the benefits are worth from ten times to one hundred times its cost. Professor R. W. Thatcher, of the Pullman, Washington, State Experiment Station, after frequent analyses, reports as follows:

"I have analyzed Rex Lime and Sulphur Solution and find it contains a much larger percentage of sulphur in sulphide form than any other preparation I have ever known, and it is the sulphur in sulphide form that gives the Lime and Sulphur Solution its value."

IMPORTANT NOTICE: Beware of "Imitations." **Rex Spray** is an absolutely perfected Calcium Sulphide, perfected to a point beyond what it was considered, according to the laws of chemistry, could be accomplished. It is absolutely uniform, and is about 30 per cent more concentrated than what the laws of chemistry admitted of its being possible to make, therefore it is easily understood that it is not an easy article to equal or imitate, "imitations" lack much of being equal to genuine, Original **Rex**.

AS A PROTECTION to fruit growers and ourselves, since getting our equipment perfected, we have applied for patent, and patent is being granted. For the past four or five years we have had people or concerns trying to imitate **Rex Spray**; have made up their concoctions, have proclaimed that theirs was "as good as Rex," and some of the people knowing of the genuine merit of Rex have been induced to buy the "imitations" only to find out later that they were deceived and misled, and it was a very expensive experience for them.

THE CHEAPEST SPRAY. All fruit growers know that the **best quality** spray is the cheapest spray, every time.

FOR FRUIT TREES. Do not delay spraying until rainy weather makes it impossible for you to spray at all. That was the experience of many last spring.

TO GRAPE GROWERS. While vines are dormant, spray, using one gallon to each eight gallons of water to rid the vines of and protect against fungus, and to destroy all spore life and protect against black knot and other troubles, then as soon as vines show life in the spring, spray, using one part with fifty parts water. Spray again, using one to fifty after fruit has set. This protects against mildew, and is cheaper, lasts longer, and is surer than dry sulphuring. **Rex Spray** was given numerous and severe tests during the past season for grape mildew and black knot, and in every single test it proved completely successful, and in cases where dry sulphuring had failed, and grapes had begun mildewing, **Rex Spray** stopped the mildewing and saved the crop.

"Gentlemen: I used some thirty barrels of your Rex Lime and Sulphur Solution on my grape vines when in the dormant state for black knot, with the result there is no black knot on them. Will use Rex hereafter."

"Dear Sirs: As you know, we have been using your Rex Lime and Sulphur Solution (one to sixty) this summer as a means to fight the mildew in our vineyards. We have had an excess of fog this season and mildew has been very prevalent in this neighborhood. The special vineyard in which we have sprayed has turned out very good. Last year we had absolutely no grapes ripen, all were ruined by mildew in this particular field. At the present moment we have a good crop in very good condition and entirely free from all disease. We are fully determined to use your Rex Solution as a spray on the vines next year, being very much satisfied with the results this year."

LILIENTRANTZ & SON, Aptos, California, September 16, 1907."

For further information, write for free booklets. **Rex Spray** is manufactured only by

THE REX COMPANY, Benicia, California; THE REX COMPANY, Omaha, Nebraska; YAKIMA REX SPRAY CO., North Yakima, Washington



FOR INFORMATION REGARDING

NORTHERN PACIFIC RAILWAY LANDS

FREE GOVERNMENT LAND
LANDS OWNED BY PRIVATE
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LANDS IN IRRIGATED DISTRICTS
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OPENINGS ALONG THE

Northern Pacific Railway

Write to
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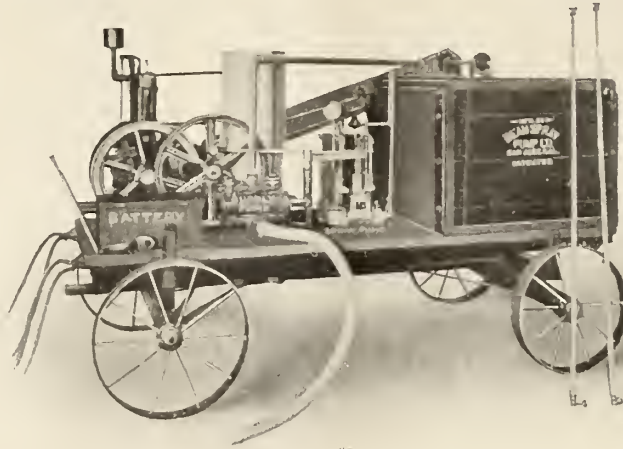

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RED
APPLES**
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Everything for Spraying

Let us quote you on everything you need including bluestone, arsenate of lead and all spraying materials. We have the best goods for the purpose, lowest prices and make prompt shipments

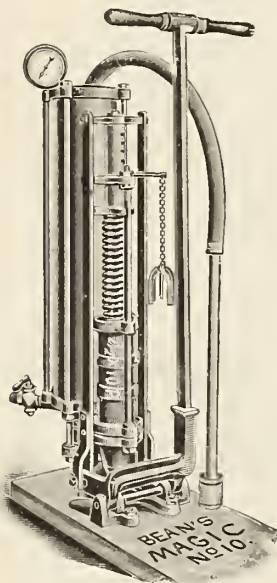
Spray Dollars on Your Trees

Many growers who sprayed this year for the first time secured \$200 more per acre for peaches than ever before. Don't think your orchard is too far gone. We will help you make it pay and your success will bring us other orders. Fitted with aluminum spray rods and other new improvements



Bean Power Sprayers

Are known the world over. Simple, complete and ready for use. If you have an engine let us build it into a complete machine. We can supply anything you want. A complete outfit will save you money and trouble. Built for high pressure and with large capacity



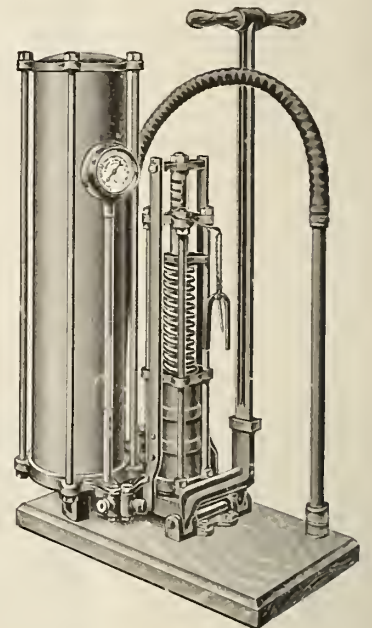
BEAN MAGIC PUMPS

Two Sizes

The Two Easiest Running Spray Pumps Made

These pumps were awarded first prize by the government experts who were judges at the international exhibition at Christchurch, New Zealand, with this commendation: "We find these Magic Pumps operate with **more than one-third less labor**. This is due to the improved spring attachment. They also have other improvements"

No wonder they are big sellers. Think what this means—saving of one-third of all your labor cost. Putting the material on with one-third higher pressure. The pump, simplicity itself; no valve or other trouble, but thorough spraying at the least possible expense. The saving in labor will pay for the pump and your spraying will be so much better done that any other pump would be expensive if you got it for nothing. Send for catalogue No. 20 for full description and prices. Freight paid to your station. If you want to get results investigate these pumps at once



BEAN'S LITTLE GIANT

The Best Barrel Pump

Everything you could want in this style of pump. Fastens in any barrel or tank. Agitates perfectly. Has large air chamber. Also ball valves and never-wear-out cylinder. You can't afford to **hire your spraying done** when you can get so good a pump for so little money. Write us for prices on this pump delivered at your depot. Also all spraying materials

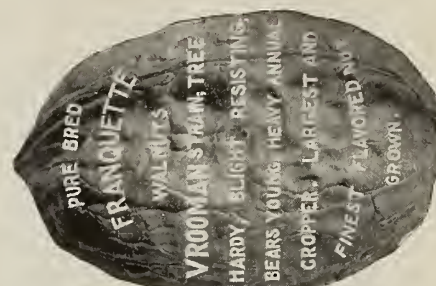
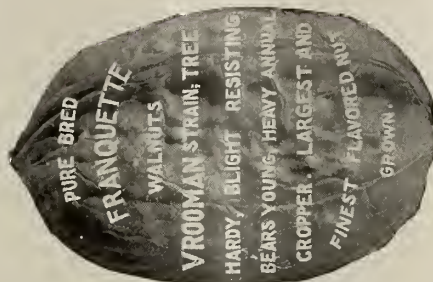
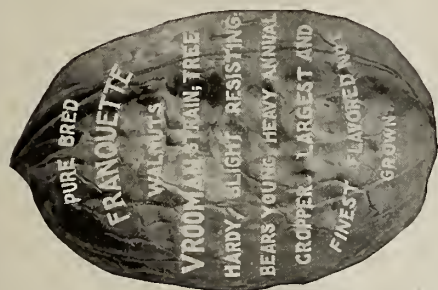
SPRAYING AND WHITEWASHING

Have you a "Family Orchard?" Have you whitewashing to do? This is a splendid outfit for small jobs—no matter what materials you use. This No. 60 is a very simple pump, easily mounted on a barrel, and it won't wear out—except two of its inexpensive parts—while you are here to tell about it. Catalog No. 20 describes fully. Price is low, delivered at your railroad station. Write us

Bean Spray Pump Co.

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YOU'RE THE JUDGE

Planting any trees this season? Then in justice to yourself ascertain the standing and merits of our trees before placing your order elsewhere. If they are better than the "other fellow's" you want them, don't you? A postal card addressed to us will bring to your desk our latest revised, illustrated catalogue and prices. You should have our catalogue whether planting this year or next. You need it.

Growing Trees is Our Business—Understand?

And it has been our exclusive business for a good many years. We have learned through actual experience and demonstration, how to produce a first class tree and the best methods for caring for them after they are grown, so that they may reach the buyer in satisfactory condition.

Looking at the Pennies: Overlooking the \$ \$ \$ \$

Is being done every time an orchardist thinks he will save a few dollars by buying a cheaper grade of trees, than he can get from a standard reliable nursery. It don't pay and you know it. Then don't do it. Send us a list of your WANTS for this year and get our prices.

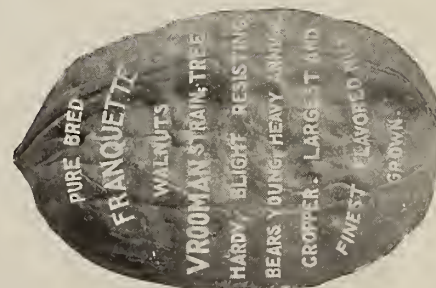
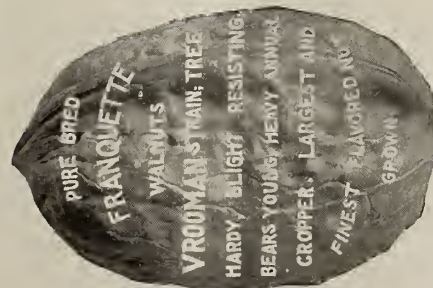
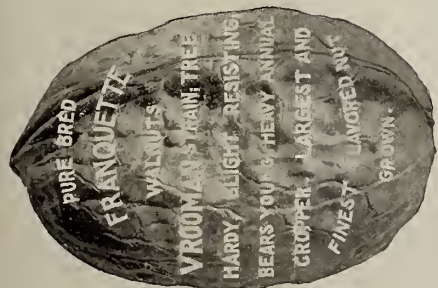
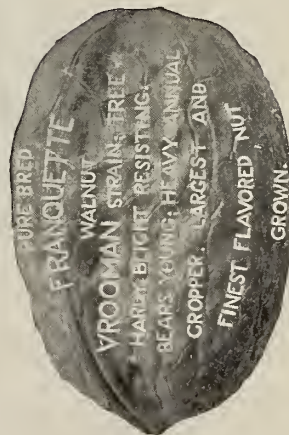
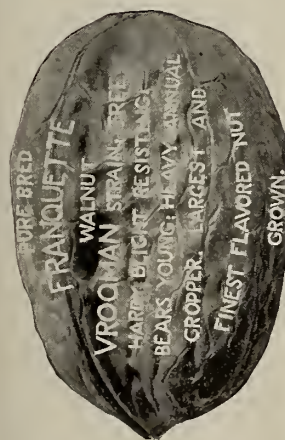
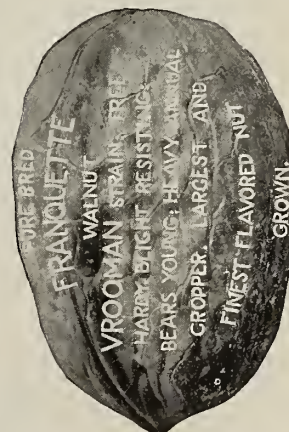
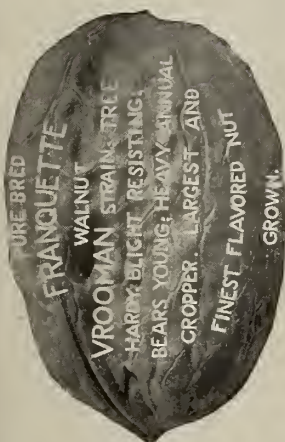
About Walnuts

We have been trying for years to get a line of walnut trees that we could recommend unreservedly to the planting public. Now we have it in the PURE STRAIN FRANQUETTE. Space here will not permit an elaborate explanation, but write for special walnut literature; we have it free for the asking. We have the best and you should know it. Give us an opportunity to show you "where we stand."

Wanted Reliable Salesmen Everywhere

OREGON NURSERY COMPANY

Salem, Oregon



WHAT WE SAY WE DO, WE DO DO

SEND FOR IT TO NEW YORK—NEW YORK IS THE PLACE FOR IT—SEASON IS LATE

LENOX SPRAYER \$3.00



NO STOPPING TO PUMP AIR

YES! You will get the regular **LENOX IMPROVED SPRAYER** for \$3.00, two for \$5.00, by sending for it to New York. **BEATS THEM ALL. ALL IMPROVEMENTS.** It will spray trees **TWENTY FEET HIGH**, holds twenty-four quarts, built of Apollo galvanized iron. Never rusts, never leaks; forcible and fine spray. **DON'T TALK LONG.** It will do your **STRAWBERRIES, VINEYARD, GRAPES** and all your small fruits, **POTATOES, TOMATOES, CABBAGE** and everything on your place. **WHITEWASHING** the hen house, cow stables, etc. A well-built machine, with care and if not abused, we will warrant it good for twelve years. Turn nozzle up spray will reach all insects upon the ceilings in stables, breeding nests, in poultry houses, in all crevices and cracks, particularly **THE UNDER SIDES OF THE ROOSTS**, and between the **HORNS OF THE COW**, where most of the trouble comes from.



NO STOPPING TO PUMP AIR,
NO SWEARING

NO AIR PUMP BUSINESS. So easy **A LADY CAN USE IT.** **NO STOPPING TO PUMP AIR** or to **SWEAR.** Compress the bulb you get your spray; stop your pressure and you stop the spray, on the principle of an engine **PLUNGER** pumping water, only much easier. By pressing and releasing the bulb spray continuously reaches top of tree without artificial power. You can put your hand inside of sprayer to wash it out as easily as you would a milk can.

\$3.00

2 for \$5

Just Now!



BETTER MILK AND MORE OF IT

LOTS OF TIMES you can use a knapsack sprayer in places where you cannot a barrel pump. While talking or hitching up the horses the work is done. Handy at any place. Even if you have a barrel pump you will use this one anyhow. Lots of times a patch off yonder ought to be sprayed, but won't pay to hitch up the horses. If this machine is handy John will sling it on his back and the spraying will be done while you are thinking. Send for our circular. **YOU SHOULD KNOW ALL ABOUT IT.** Or perfectly safe to send for the sprayer direct without waiting for the circular. A small can "Sure Destruction to San Jose Scale" sent free with each sprayer, if ordered at once.

A **RECIPE** issued by a chemist, how to prepare a sanitary lime milk for a whitewash that will stick and stay on the walls of the hen house, trees or stable walls, making insect breeding impossible. Anyone can make it cheaply and quickly wherever located. This recipe will be sent complimentary with each sprayer, if ordered immediately.

Because the season is late you get it for this price



NO AIR PUMPING

REMEMBER this is the regular \$5.00 Sprayer we are talking about, but season now a little late, we would rather sell at \$3.00 than wait until next season to get \$5.00. **JUST NOW** you can have **ONE FOR \$3.00** or **TWO FOR \$5.00.** Order before they are gone. Time counts. **NO LENGTHY LETTERS** necessary. We will know what you want—that you want one of these **LENOX IMPROVED SPRAYERS**, perhaps a couple of them, and that you want them quick, too, but give us your name and address very plainly. **PROMPT SHIPMENT.** We are old manufacturers. **EXPRESS RATES FROM NEW YORK LOWER THAN FROM ANY OTHER POINT.** Newspaper people have known us for over twenty years. We are old advertisers. What we say **WE DO, we DO DO.** You can discount all our promises **AT YOUR BANK.**

Remit by express or post money order; no checks taken for this price. Go down to the **POSTOFFICE** now while you are talking about it. You may get your Spraying Solution and the Disinfecting mixture all ready.

The expressman will soon drive up to your house with the sprayer and it will be a good one, too. **VERY WELL FIT** even to take orders for, if wanted from neighbors and neighboring towns. **THE LENOX IMPROVED** is the **STANDARD KNAPSACK SPRAYER**, beats them all; you take no chances when you have a **LENOX.** You won't have to stop from work to take it to the machine shop to find out what is the matter with the air-pump chamber or the nozzle, or anything else. No air-pump nuisance in this case. Our Lenox is ever ready, never failing.

Fine for whitewash lime milk to be used in hen house



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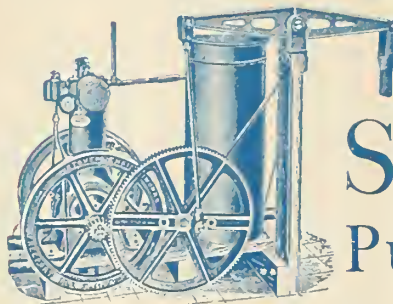
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